

Key words

- %built-up surface515, 517
 %built-up surface(quality(form, structure, function)) 517
 %floor surface... 512, 513, 517, 520
 1st National Environmental Policy Plan.....567, 570, 573
 24 hour intensity.....272
 24-hour average.....556
 4th National Plan of Environmental Policy423, 575
 4th National Plan of Watermanagement Policy.... 423
 5th National Plan of Spatial Policy418, 505, 575
 A horizon325
 A value587
 Aalsmeer518
 aanbrug259
 Aanen(1990)437
 aarvederkruid61
 ABC model659
 ABF505, 506
 abiotic658
 abiotic variation391
 Abken BV655
 aboreal pre-adaptations.....458
 abrasion.....320
 absorption590
 abundance364, 387
 abundance of organisms371
 abutment259
 acacia (acacia98
acceleration12
 accentuation(design tools(planting))72
 acceptable daily intake576
 accepted risk212
 access crossings.....278
 accessibility626, 627
 accessibility633
 accommodation.....458, 459, 547
 accord629
 accords370, 628
 accords of dispersion.....469
 accumulation(urban)369
 Achilles and the turtle368, 667
 achterdiep498
 Achterhoek496
 acid conditions386
 acidity386, 561
 acids589
 action space626
 activities(interfunctional)466
 actors476
 adaptability(species)389
 adaptation425, 458, 547
 adhesion water.....578
 adhesion(legend)632
 adhesive force.....328
 ADI.....576
 adiabatic156
 adsorption588, 590
 aeq.....12, 13, 710
 aerodynamics.....111
 aeroplanes(air(density)).....107
 aerosols.....555, 556, 561
 aerosols, dust, soot.....553
 Afsluitdijk... 209, 216, 217, 219, 220
 after-school care centres534
 age range per continent529
 ageing530
 Agenda 21570
 agenda(changed(design)).....443
 agenda(legend transition)643
 agglomerations527, 528
 agrarian firms542
 agricultural production(greenhouse-effect)354
 agricultural systems.....485
 agriculture461, 548
 aim(scale)368
 aim-directed661, 663
 air bubble108
 air density156
 air dispersion(wind velocity).....110
 air pollution558
 Air Pollution Act590
 air pollution(dispersion)109
 air pollution(models).....560
 air pressure106
 air transport companies.....545
 air(density)106, 107
 Akker(2001)9, 198, 199, 202
 alcohols554
 alder48, 64, 83, 376
 alder and ash forests.....378
 alder(clay/loam)85
 alder(coastal)84
 alder(els)98
 alder(nutrient-rich peat).....85
 Alexander(1966)190
 algae354, 437, 454, 561
 algae(blue).....432
 algae(yellow)432
 algal22
 aliphatic compounds588
 Alleröd.....57
 allotment directions(wind)144
 allotment(courtyard)151
 allotment(wind)111
 allotments265, 275
 allotments(point,line)151
 allotments(point,line,corner,courtyard)148
 allotments(repeating)149
 allotments(wind)148
 Almere433, 439, 527
 Almere lake59
 Almere Pampus443, 509
 alnion incanae378
 AIO4-tetrahedrons333
 alternating current21
 Alterra441
 altitude lines.....424
 ambition627
 ambulances263
 amenities521, 539
 amenity park538
 Amerongen(weir)208
 amfibool336
 amino acids554
 ammonia555
 ammoniac589
 ammonium556
 ampere.....291
 amphibians(atlas)433
 amphibole.....336
 amphiboles336
 amplitude156
 Amstelveen504
 Amsterdam206, 209, 274, 277, 407, 444, 453, 476, 513, 515, 528, 664
 Amsterdam harbour islands.....508
 Amsterdam Noord.....296
 Amsterdam West517
 Amsterdam(density)512
 amusement hall538
 anaerobic decomposition.....562
 anchorage block.....259
 and623
 Anderson(1984)625
 Andrewartha (1961)371
 Vogel; Günter394
 angiosperms.....356, 432
 Angremond(1998)479
 animal husbandry.....486
 animal kingdom352
 animals(night).....352
 animals(size(habitat))409
 ankerblok259
 Ankum(2003).... 203, 204, 230, 233, 253
 Ankum, 2003.... 222, 223, 224, 225, 226, 227, 228, 229
 annual meadow-grass387
 anonymity466
 anthropocentric549
 anthropocentrism659
 anthropogenesis458
 anthropogenically added dynamic485
 antimony589
 antinode(sound)155
 antipodal633
 ants47
 Antwerp206, 493
 ANWB445
 apartments631
 apple83, 84, 88
 approach ramp259
 April64
 aquatic life433
 aquifers169
 ARA ports206
 arable land486
 ARBO569
 arboretums538
 arcades649
 arch bridge259, 260
 arch(fixed, two-hinged, three-hinged)259
 archeological finds287
 archeology319
 ArchitectenCie647
 architectonic clarity629
 architectural plan(space(inside, outside))649
 arctic circle35
 arctic night35
 area capacity642
 areal position364
 areas of vegetation393
 Arends(1994)230

KEY WORDS BOUNDARIES OF IMAGINATION

<i>Arends, 1994</i>	402	Bal et al., 2001.....	395, 396	bike.....	623, 626
argex pellets.....	87	Bal(1995).....	374	Bink(1992).....	427, 430
Argus.....	249	Bal(1995, 2001).....	447	bio restoration.....	591
Arnhem-Nijmegen.....	638	Bal(2001).....	374	Biobase.....	361, 431
aromatic compounds.....	588	balance of use(energy).....	33	biodegradability.....	590
arrangement.....	18	balance(composition).....	628	biodiversity.....	352, 365, 570
arrowhead.....	61	balconies.....	649	biodiversity(genetic).....	389
arsenic.....	554, 589	balconies(walled-in).....	649	biodiversity(health).....	365
arsenic eaters.....	425	balk- of liggerbrug met meer overspanningen.....	259	biodiversity(infrastructure, industrial areas).....	406
art660.....		balkbrug.....	259, 260	biodiversity(mankind).....	666
art(emotions(diverse)).....	636	ballet theatre.....	538	biodiversity(means of design).....	406
arthropoda.....	431	Baltic Sea.....	220, 492	biodiversity(urban age, seepage, drainage, water level, infrastructure(verges and slopes)).....	406
articulation(design tools(planting))	71	Baltic trade.....	492	biodiversity(urban, rural).....	405
artificial fertilisers.....	494	Barcelona.....	278, 653	bio-industry.....	555
Artificial fertilisers.....	494	barrel.....	13	biological identity.....	420
artificial(planting).....	68	barrier effect.....	276	biological oxygen consumption.....	556
artistic freedom.....	628	Barton(2000).....	426	biological soil purification.....	590
artistic life style.....	267	basalt.....	318, 335	biological weathering.....	320
ash.....	376, 554	bascule bridge.....	259	biomass.....	21, 23
ash(es).....	98	basculebrug.....	259, 260	biomass(energy contribution(national)).....	30
Ashby(1960).....	665	basic paradox of spatial arrangement.....	401	biomen.....	372, 393
ash-elm forest.....	484	Batenbur(Eddes).....	425	bioreactor techniques.....	590, 591
Asklepios.....	629	<i>Bateson, 1980, 1983</i>	395	biosphere.....	391
aspen.....	377	bats(atlas).....	433	biotic.....	658
asphalt surfaces.....	86	battery.....	34	biotic variation.....	391
assess environmental effects.....	551	Bazel.....	651	biotope.....	371, 382, 391, 393
associations.....	392	Beach banks.....	497	biotope cities.....	408
associations(synecological).....	383	beach nourishment.....	219	birch.....	48, 84, 376
assumption.....	659	beam bridge.....	259, 260	birch forest.....	372
assumptions(untraceable).....	443	beam transmitters.....	295, 308	birch forests(acid peat grounds).....	378
asthma.....	466	bearing capacity.....	345	birch forests(dehydrated peat grounds).....	378
asymmetric street profile.....	631	Beatrix.....	492	birch(berk).....	98
Atlanta.....	511	beech.....	48, 83, 377	birch(clay/loam).....	85
Atlantic heather.....	372	beech (beuk).....	98	birch(nutrient-poor peat).....	85
Atlanticum.....	58, 59	beech forest.....	484	birch-common oak forest.....	484
atmosphere(convection).....	107	beech woods.....	436	Bird and Habitat Directive.....	436
atmosphere(light, sombre).....	88	beech(pavement raising).....	87	birds.....	353, 382, 389
atmosphere(planting).....	68	beekdal.....	496	birds(Dutch).....	431
atmospheres.....	626	Beestenmarkt.....	655	birds(phosphate, nitrate).....	437
atmospheric cycle.....	316, 317	Begon, Harper et al. (1996).....	371	Birkhoff (1933).....	368
atmospheric influence.....	43	Beidha.....	461	Birkhoff(1933).....	667
atmospheric refraction.....	42	Beintema(1995).....	427	biting stonecrop.....	63
atmosphere|cultures.....	627	Bekhuis(1988).....	427, 430	black cherry.....	377
attracting force.....	470	<i>belt ('boezem') system of Delfland</i>	226	black list.....	554
attraction.....	471	belt canal.....	257	black poplar.....	376
attraction between regions(functional charge).....	474	belt canals.....	225	black tern.....	436
attraction(mass, specialisation).....	474	belt system.....	226	Black-tailed Godwit.....	431
auction.....	518	Bense(1954).....	368, 667	Blaeu.....	274
audible sound.....	155	Benthem en Crowel.....	653	blanket bog.....	484
autecology.....	371, 391	benzene.....	554, 591, 592	blanket bog formation.....	439
aut-ecology.....	458	Berg(2001).....	427	block distance.....	151
autumn(colours).....	84	Bergse Maas.....	209	blocks.....	631
average.....	425	beri-beri.....	434	blocks(Eastern).....	46
average maximum discharge.....	211	berk.....	376	blocks(Western).....	46
average year maximal discharges	211	Berlage.....	277, 629	Bloemers(1981).....	60
<i>average(reduction)</i>	399	Berlin.....	501	Blom, P.....	340
axial systems(design).....	349	Bern Convention.....	364	blue algae.....	432, 434
azalea.....	83	berries.....	84	Blue Arrow.....	438
azalea(acid soils).....	85	Best technical means'.....	551	blue legend.....	251
azimuth.....	40, 42, 43, 44, 45	betulon pubescentis.....	378	blue list.....	364, 365
azimuth angle.....	39	Betuwe railway.....	287	blue print.....	626
B horizon.....	325	<i>Betuwe(flooding)</i>	214	boerenhofsteden.....	122
B value.....	587	Betuwe(floods).....	210	boerenwormkruid.....	63
Baarsjes.....	628, 629	Betuwelijn.....	238	Boersema(1991).....	546
Baas Becking.....	391	beurtvaart.....	206	Boersema, Copius Peereboom et al. (1991).....	550
Bach.....	278, 281, 284, 286	bicarbonat.....	386	Boertange.....	205
back gardens.....	266	bicycle lane(hedges).....	101	boezem.....	226
background.....	621	<i>Bierkens</i>	172	boezemkanalen.....	225
backside.....	626	Biesbos.....	293	Bohemen(1986).....	427, 430
Bahrtdt(1957).....	466	Biesbosch.....	210		
Bailey bridge.....	259, 261	bifurcation ratio.....	190, 192		
baileybrug.....	259	bifurcations(Rhine).....	207, 209		
Baileybrug.....	261	Bijhouwer, J.T.P.....	341		

KEY WORDS BOUNDARIES OF IMAGINATION

Bohemen, 2004.....	403	brugdek.....	259	Capelle a/d IJssel.....	340
Bohn(2001).....	372, 436	Bruges.....	492	capillary forces.....	328
Boltzmann.....	16	<i>Bruin</i>	205, 207, 208, 210	capillary fringe.....	327
bomen.....	122	Bruin et al., 1987.....	401	capillary piezometric levels.....	328
Bonn.....	476	<i>Bruin et al., 1987</i>	401	capillary water.....	86, 578
boog(ingeklemde, tweescharnier-, driescharnier).....	259	Brundtland.....	367, 666	capillary water zone.....	327
boogbrug.....	259, 260	Brundtland Committee.....	570	capillary zone.....	328
boogbrug met hooggelegen rijvloer	259, 260	brushwood.....	436, 438	capitals.....	630
boogbrug met laaggelegen rijvloer	259, 260	brushwood(ecological groups) ..	386	capsella bursa-pastoris.....	387
boogbrug met tussengelegen rijvloer.....	259, 260	bryophyta.....	355	captains of service.....	476
bookshops.....	543	BTEX.....	588	car.....	263, 621
boomgaarden.....	122	Buchanan.....	277	car exhaust gasses.....	555
boomgaardgebieden.....	122	Bucknell(1967).....	109	car movements per hour.....	269
border(hedges).....	102, 103	budget year.....	236	car park(hedges).....	103
Boreal.....	58	buffer zone.....	470	car parking.....	263
boredom.....	368, 625, 628	build outside the dykes.....	441	car trips.....	269
bosanemoon.....	64	building.....	510	car tunnels.....	299
bossen.....	123	building companies.....	543	car widths.....	262
boterbloem.....	65	building complex.....	510	carbon dioxide.....	22, 352, 354, 553
bottom-up and horizontal external contacts on the working floor	238	building height.....	519	carbon monoxide.....	553, 554
botulism.....	554	building part.....	510	carbonated.....	589
Bouman(1979).....	493	building segment.....	510	Carboniferous.....	354
boundaries(drawing).....	643	building(height).....	45	carcinophobia.....	426
boundaries(sharp, vague).....	398	building(prerequisite).....	664	care centres.....	534
boundaries(spaces).....	394	buildings(force(wind)).....	107	caressible.....	440
boundary layer.....	129	buildings(wind).....	111	car-free streets.....	651
boundary layer thickness.....	130	built area per person.....	407	cargo.....	272
<i>boundary richness</i>	396	built area(>50%).....	518	cargo transport(ship).....	206
bouwland.....	122, 497	built-up area.....	512	cargo vehicles/24 hour.....	272
Boven(1997).....	650, 652, 653	built-up areas.....	524	Caribbean.....	357
bovenkruising.....	259	bulb field.....	497	Carnot-engine.....	19
Bovy(2000).....	471	bulbs.....	83	carp.....	434
bowl.....	401	bulrush.....	61	carpentry.....	588
Boyle.....	18	bulrush concentration.....	422	carpinion.....	378
Braakman.....	218	bundled deconcentration..	369, 453, 468, 476, 642	carpino-berberidion.....	378
Brabant.....	496	bunkers(energy).....	33	carrying capacity.....	461
brackish-water jellyfish.....	431	<i>Burgerweeshuis (Amsterdam)</i> ..	394	casae.....	489
braided river.....	195	burning.....	485	cascade.....	14
braiding.....	196	bus.....	249, 263, 283, 623	casino or lottery.....	538
branching(river).....	190	bus station.....	283	Castex and Panerai.....	274
Brandaris.....	220	business.....	626	castle.....	489
Brandes.....	651	business(Netherlands).....	542	castles.....	639
brandnetel.....	66	butterflies(Dutch).....	431	casualties.....	281
brandstofcel.....	20	buy.....	627	catalpa.....	84
<i>Braun Blanquet</i>	396	buy.....	626	catastrophes.....	352, 366
Braun-Blanquet, 1964.....	395, 396	Buytenwegh.....	364	catchment area.....	169
BRAUWERE.....	655	BZV.....	554, 556	catchment area A.....	192
breaker's yard.....	588	C horizon.....	325	catchment areas.....	169
breakfast.....	46	C value.....	587	category formation.....	444
breakwaters.....	220	cabaret theatre.....	538	cathedral effect(road).....	95
bream.....	433, 434	cable and pipe tunnel.....	309	cattle(groundwater level).....	222
bream colonisation.....	433	cable and pipe tunnels.....	308	cattlefood(bream).....	434
breast-feed.....	465	cable networks.....	296	causal relations.....	547
Breda.....	492	cable stay anchorage.....	259	causal thinking.....	660
Breems(2000).....	455	cables.....	88, 287	causal thinking(recucing diversity)	666
brem.....	64	cables and pipes in streets.....	223	cause.....	109
brick houses.....	220	cables(planting).....	87	cause(ceteris paribus).....	660
brick yards in the river area (flood plain).....	220	cadmium.....	554, 589	cause(condition).....	661, 669
bricks.....	220	café's.....	545	Cavendish, 1798.....	470
bridge.....	232	calcium.....	85, 389	CBS.....	431, 523
bridges.....	258, 259	Calthorpe.....	286	CBS(1994).....	469
Brielse Maas.....	218	camping.....	538	CBS Biobase.....	361
brink.....	486	camping grounds.....	545	CBS(1994).....	502
broekbos.....	496	canal.....	247, 249, 257, 498	CBS(2001).....	523
Broekhuizen(1992).....	427	canalisation of the Lower Rhine	208	CBS(2003).....	28, 31, 32
brook.....	247, 249	canals(groundwater level).....	223	CBS's Standard Company Categorisation.....	444
brooks.....	169, 191, 247	cancer.....	466	CCNR.....	206
broom.....	64	cancer(stress).....	426	cd 48.....	
Brouwersdam.....	218	candela.....	48	CDA.....	469
Brouwershavense Gat.....	218	canopy.....	92	CEC.....	562
		canopy(road).....	95	ceiling/shelter.....	627
		cantilever bridge.....	259, 260	cell differentiation.....	353
		cantilever span.....	259	cell diversity.....	353
		cantileverbrug.....	259	cell walls.....	388
		capacity of the road.....	264		

KEY WORDS BOUNDARIES OF IMAGINATION

<i>cell(membranes)</i>	394, 424	civil-engineering isolation technique	592	collage.....	637
cella.....	630	.....	592	collective concepts.....	644
Cenozoic.....	316, 355, 357	civilisation damage.....	424	Cologne.....	476
center span.....	259	CI 555.....		color.....	627
central green(wind).....	141	claims on Randstad.....	422	colour surfaces.....	623
central parking.....	276	claims(spatial(regional)).....	418	coltsfoot.....	62, 326
central road.....	276	clairobscur.....	47	combining.....	445
Central Slenk.....	496	clap bridge.....	261	combinations.....	14, 418
centralisation.....	635	classes.....	392	combinations(regional).....	475
centre open.....	277	classes of roughness(wind).....	122	combinatorial possibilities.....	508
centre(periphery).....	634	classification(ecological).....	392	combined sewage system.....	304
centripetal force.....	108	Clausius.....	18	combined system of cable and wire	
Cerdà.....	278	Clausman(1984).....	374	ducts.....	308
Cerdà's Barcelona.....	653	clay.....	326, 374, 577, 579	combined system of sewer pipes	
ceteris non paribus.....	662	clay fractions.....	326	and fibre optics cables.....	308
ceteris paribus presupposition.....	661	clay granules.....	87	combustion.....	554
CFK.....	556	clay grounds.....	247	combustion emissions.....	553, 554
CH ₄	555	clay marsh.....	433	<i>combustion processes</i>	556
chain of effects.....	551	clay parts.....	393	comfort(outdoor).....	119
chalk.....	350	clay polders.....	481, 482	comfort(wind velocity).....	110
chamerion angustifolium.....	389	clay(local inland movement).....	220	comfrey.....	63
channel(width, depth, current		clay(nature potential).....	433	common oak.....	65
velocity).....	185	clay(use).....	333	common plantain.....	400
chaos.....	625, 628	clay/loam soils(trees).....	84	common ragwort.....	388
chaos ecology.....	391	clean soil statement.....	579	common reed.....	61
chaos equations.....	398	clean soil target values.....	587	common whitlowgrass.....	62
<i>chaos function</i>	399, 464	climate change.....	23, 209, 211, 395	communal trenches for cables and	
chaotic behaviour.....	398, 399	climatic changes.....	360	pipes.....	309
characteristic details.....	625, 631	climax.....	371	communication(difference).....	367
Charlemagne.....	489	climax species(planting).....	78	communication(diversity).....	367, 666
chemical energy.....	34	climax stage.....	382	communities.....	393
chemical industry.....	543	climax state.....	429	community care centres.....	534
chemical lavendaries.....	588	closed courtyards.....	489	community(species).....	371
chemical oxygen consumption.....	556	closed screen(trees).....	96	commuting.....	531
chemical stability.....	590	closed water storage.....	344	compact cities.....	422
chemical weathering.....	320	cloud layer.....	559	compact city.....	469, 476
chemistry(armamentarium).....	424	clouds.....	166	compact city/town.....	642
chemists.....	534, 543	club-mosses.....	355	compact town.....	370
cherry.....	83, 88, 377	CO.....	554	compact(town).....	135
cherry(clay/loam).....	85	CO ₂	22	compacte Stad.....	370
Chézy.....	201	CO ₂ emissions.....	238	comparability(interdependent).....	440
chickweed.....	62, 389	CO ₂ (atmosphere).....	354	comparability(internal).....	440
children.....	425	CO ₂ -production.....	30	comparability(regional design).....	506
childrens' hospitals and hospices		coal mines.....	489	comparable facts.....	665
.....	534	coal(environmental costs).....	30	comparison.....	658
childrens' independently homes	534	coarse mode.....	556	compartmentalisation(islands).....	438
Chinery(1988).....	388	coast formation(mid-West).....	379	compass.....	43, 45
chloride gases.....	555	coast formation(North).....	379	compass card.....	114
chlorinated derivatives.....	590	coast forms.....	216	compensation.....	421, 425
chlorinated hydrocarbons.....	588	coast landscape.....	312	compete.....	626
chlorofluoro-hydrocarbons.....	556	coast line(central).....	219	competition.....	382, 388, 393
choice(forced).....	427	coast(natural potential).....	436	competition(interregional).....	476
choices(design).....	367	coastal constructions.....	217	competition(light).....	48
cholesterol.....	388	coastal defence.....	216	competitors.....	371, 389
chordata.....	433	coastal defence law.....	219	complex models.....	398
christian democrats.....	469	coastal defence systems.....	209	component(detail).....	630
chrome.....	589	coastal engineering aspects.....	220	components.....	625, 628
church.....	476	coastal research and model		components(composition).....	631
CIAM's functional typology.....	637	investigations.....	216	components(focus).....	631
cickweed.....	389	coastal trees.....	84	composition.....	625
cinema.....	538	coastline.....	209, 217	composition analysis.....	628
cinemas.....	537	coastline(closed, sandy).....	209	composition(balance(repetition,	
Cipolla (1970).....	462	coastline(erosion).....	219	diversity)).....	628
circumpolar.....	38	cobalt.....	589	composition(planting).....	68
circumstances(measure).....	111	COENEN.....	650	computer.....	623
circumstances(succesively added)		Coevorden.....	205	computer network cables.....	300, 308
.....	111	cogeneration.....	13	computerprogramming.....	668
citrus cultivations.....	555	cognition.....	665	concentrated integration.....	445
city.....	272, 624, 626	Cohen(1872).....	405	concentration.....	16, 370, 470, 625,
city highway.....	247, 257	coherence(nearness, infrastructure)		635	
city highways.....	190, 191	.....	632	concentration(conurbation, region)	
city(Dutch(rareness)).....	437	coherence(parts, whole).....	632	.....	408
civil engineering.....	319	cohesion(legend).....	632	concentration(probability).....	15
civil engineering constructions.....	252	cohesive force.....	328	concept.....	621, 665
civil engineering offices.....	233	cohort.....	463	concept of context.....	625
		cold extensions.....	649		

KEY WORDS BOUNDARIES OF IMAGINATION

concept(unforeseen possibilities)	443	conurbations	407, 501, 502	culture(collective concepts)	644
conception	665	conurbations(form(wind))	111	culture(economy)	644
conceptual image	629	conurbations(high density)	422	cultures	626
conceptualization	665	convection losses(wind velocity)	110	culvert	232
condition(semantic)	658	conversion(eficiencia)	19	culverts	258
condition(wave-lengths)	662	conversion(energy)	19	cumulus clouds	108
conditional analysis	573, 658	convertibility	590	Curie	424
conditional assessments	644	conveyor pipelines	298	currant	83, 84
conditional comparisons	658	cooling systems	556	current intensity	291
conditional evaluation	428	cooling-water	554	current(electric)	21
conditional functions	424	coordination	382, 389	curtain(design tools(planting))	71
conditional links	549	Copernicus	38	curtis	489
conditional operators	658	copper	589	cyanides	589
conditional range	658	copper beeches	88	cybernetic ecology	391, 458
conditional sequence	111, 550, 661	copper-leaved trees	88	cybernetics	399
conditional(causal)	661	Corbulogracht	60	cycle paths	279
conditionality	546	cormorant	438	cycle ride	249
conditionality(two directions)	111	Cormorants	436	cycle route	249
conditionals	658	cornelian cherry	64	cycle shop	544
conditions	546	corners	268, 623	cyclical development(planting)	73
conditions(administrative, cultural, economical, technical, spatial)	663	corners(inner)	649	cyclical planting	74
conditions(architecture, environmental planning)	442	COROP areas	502, 508	cyclist	263
conditions(ecological)	366	corridors	389	cyclists	265, 282
conditions(sunlight, moist, acidity)	386	corridors(wet)	205	cyclone	108
conditions(time)	662	cosine rules	40	cylinder	19
configuration	140	costs of risks	563	CZV	554, 556
confusion	368	costs preventing unnecessary death	563	<i>D.J. Joustra, et al., 2004</i>	395
confusion of scale	369	costs(safety)	426	daily rhythm	468
confusion of scale	667	count of Holland	491	daisy	64
congestion	272	country	624	dam	401
conifers	432	country estates	378	Dam, M. van	502
<i>connecting</i>	402	country road	249	damage	568
connection(separation)	399	courtyard	649	dance theatre	538
connections(negative effect)	403	courtyards	654	dandelion	62
connections(scale)	369	courtyards'	489	danger	627
connections(separations)	393	cover	626	dangerous	623
Constandse (1967)	476	coverage	387	darkness(atmospheric dust)	357
Constandse(1967)	436	cow parsley	62	<i>Das, 1993</i>	234
Constandse, A.K. (1967)	482	cowslip	389	data networks	288
constant(design tools(planting))	72	crabs	431	data(accessible, reliable, retrievable)	236
constellations	38	crane bridge	261	date	43
consultancies	545	crawl spaces	223	Dauvellier, P.	342
contact zones	397	creativity	658, 660	daylight penetration	77, 88, 93
container trees	94	creativity centre	538	daylight penetration(planting)	81
containers	299	crèches	534	daylight(filtering(trees))	89
context	627	creek bed	497	dB156	
context sensibility	624	creek relic	497	dB(A)	158, 161
context sensitive effects	666	Creemers(1983)	158	death rate	463
context(geographical, historical)	647	criminality	466	December 22nd	37
contexts	445	crisis centres for women	534	decentralisation	635
context-sensitive problems	400	crocus	83	decibel	160
continent	393	crooked grids	279	decibells	156
continent(areas of vegetation)	392	Crooswijk	655	decibells	157
continental highway	247	<i>crop yields(open water levels)</i>	223	deck	259, 401
continental networks	281	crops(groundwater level)	222	deck arch bridge	259, 260
continental shelves	165	cross parking	263, 268	declination	37, 40, 43
continents(heating)	109	crossings	252, 253, 258, 265, 266, 271	decomposition processes	555
continuity	70	cross-parking	267	deconcentrated specialisation	445
continuous beam	259	crossroads	251	deconcentration	370, 470, 635
contraception	465, 466	crowd pullers	518	definition	664
contradiction	658	crowding	424	deglomeration	502
contradictions(scale)	445	crown raising(tree)	99	degree of screening	68
contrapolar	633	crown(tree(dense, open))	88	Delfland	226
contrast	628	crude oil	13	Delft	123, 223, 235, 342, 359
contrast(hedges)	103	crust of the Earth	334	Delft Hydraulics	215
control	626, 627	crystals	334	Delfzijl	220
conurbation	369, 510	cuckooflower	64	Delta	205
conurbation definition(CBS)	512, 527	culmination	37, 43	Delta metropole	475, 476
conurbation density	370	cultural	658	Delta metropolis	506
conurbation density10km	512	cultural heritage	206, 555	<i>Delta project</i>	218
		cultural identity	476	Delta works	494
		cultural life	663	delta(nature)	437
		cultural-ecological study	459	Deltametropolis	408
		culture	659	Deltawerken	216
				Deltawet	217

KEY WORDS BOUNDARIES OF IMAGINATION

Deltaworks	216, 219, 237	desintegration	668	disorder	14
democracy	475	detail(component)	630	distance meter	45
demography	463	detailing(morphological		distance to cars ahead.....	264
Den Bosch	205	reconstruction)	632	distances travelled	531
Den Haag	307	details	625, 628	distribution	14
Den Helder	206, 220	details(characteristic)	631	distribution and abundance of	
denitrification	562	details(repeating)	632	organisms	371
densities(boundary-sensitive)....	508	determinists	460	distribution centres.....	299
densities(diversity)	512	detour	278	distribution maps.....	441
densities(national)	501	detours	282	distribution substation	292
densities(population, global).....	499	devaluation of house prices by		distribution(particles).....	15
density	499	noise	272	distributive frequency division(wind)	
density comparison.....	520	dewatering	344	.....	112
density measures(urban).....	507	dewatering level	344	district	272, 369, 510, 624, 626
density of homes	502	<i>diatoma</i>	432	district configuration	140
density of investment	467	Dieckmann(2000)	367, 455	district density1km	513
density(10km, conurbation)	512	diesel oil.....	588	district image	631
density(300m neighbourhood)....	513	difference	664	district road.....	247, 249, 265, 273
density(30km, metropolis)	510	difference(scale)	399	district roads.....	190, 272
density(30m Urban island).....	520	different behaviour.....	627	district tare.....	510
density(air)	106	differentiating	399	district ways	190
density(continentally gross).....	499	differentiation'	368	district(lay-out(wind))	111
density(continentally net).....	499	'differentiation'.....	668	district(polarisation).....	634
density(ensemble house)	514	differentiation(functional).....	634	disturbance.....	573
density(exclusive, inclusive)	191	digestibility(salt, acid)	389	disturbing	399
density(frontal)	151	digging up	485	ditch	247, 249
density(gross and net)	500	digits(m ² area)	510	ditches	221, 225, 258
density(gross house neighbourhood)		dijkdorp	486	ditches(distance).....	228
.....	514	dike breaches	209	ditches(pattern)	228
density(increasing).....	517	dike strengthening.....	209, 238	diversity	420, 421, 628
density(neighbourhood).....	515	dike structures	209	diversity of species.....	68
density(net house neighbourhood)		diked land in open water	324	diversity(communication).....	367, 666
.....	514	dikes.....	206	diversity(legends).....	470
density(road network)	525	dikes(elevation)	209	diversity(locations)	191
density(scale).....	369	dikes(height)	214	diversity(risk)	366
density(urban)	408	dikes(wet)	210	diversity(statistical reduction)	427
density(ways)	190	dilatation	269	dividing(morphological	
density100m(ensemble)	516	dilution of households	502	reconstruction)	632
density1km(district)	513	dilution(household).....	530	diving ducks	434
Denters(1994)	407, 440, 664	dinner	46	division of functions	466
Denters(1999)	454	dinosaurs(extinction)	352	division of labour	466
dentists	534	diploid.....	355	doctors'	534
dependent variable	663	diploid life cycle	355	Doesburg	205, 323
deposits	194	diptera(Dutch)	431	Dogon architecture.....	394
deposits(river)	195	direct current.....	21	dogwood.....	376
depressions	560	direction	624	Dollard	220, 324
deseases(population density)....	466	direction(wind(probability)).....	115	domestic voltage	298
desert(brackish, evaporation)....	400	direction(wind)	112	domestic waste	299
deserts.....	167	direction-sensitive	399	donk	497
<i>design</i>	547, 665	directly served inhabitants	271	doom scenario.....	548
design decisions(tacitly supposed)		Dirk II.....	490	doorgaande ligger	259
.....	638	Dirk III	490	Doorn(1978)	464
design measures.....	262	Dirk V	491	Dordrecht.....	273, 274, 492
design sketch	430	Dirk VII	492	dose-response diagram	563
design speed.....	474, 479	Dirkse(1994)	436	dots distribution(real measure)	509
design techniques(planting)	73	dirty	623	dots overlap.....	510
design tools(planting).....	71	disaster(air pollution).....	566	dots(gross)	510
design transformation	266	disasters(needed to make		dots(Net).....	510
design transformations	266	progress)	216	double-leaf bascule bridge	260
design velocities	264	discharge	185	downdraughts.....	83
design velocity	272	discharge distribution over the		draaibrug	259, 260
design vocabulary	638	various Rhine branches.....	209	<i>drain pipes(distance)</i>	228
design with nature approach	220	discharge of a river.....	195	drain systems	424
design(diversity).....	367	discharge of a river(delay after		drainage	247, 344
design(generating study)	427	rainfall).....	172	drainage (profile subdivisions and	
design(possible worlds)	660	<i>discharge of the Rhine</i>	172	velocities)	199
design(urban, architectural).....	549	discharge pipes	288	drainage directions(landscape)	188
design(vocabulary)	637	<i>discharge Q(catchment area)</i> ...	171	drainage of reclaimed land	205
design(worthless areas)	443	<i>discharge Q(water depth H, Lobith)</i>		drainage pool	249
designer.....	7	.....	171	drainage system.....	300, 343
designer(intentions((past		discharges(river, maximum).....	211	drainage systems.....	190, 210, 303
experience, expectations)(use,		disco.....	624	drainage(building, roads, paths,	
perception)))	636	discrimination(positive).....	403	pipes, electric wires, parks,	
designers(possible		diseases(physicians).....	426	sports fields, playing fields)....	344
problems(uncertainty))	426	disintegration(scale)	368	drainage(large scale)	208
designers' imagination(ecology) 443		Disneyland.....	475	drainage(river).....	186

KEY WORDS BOUNDARIES OF IMAGINATION

drainage(urban)	454	earth(nodding)	37	electric power stations(capacity) 31,	32
drained by pumps	221	earth(radius)	35	electric properties	590
drained lakes	324	earth(turning)	38	electricity distribution network	287
draining	485	Earth's crust	334	electricity grid	21
draining an area(soil)	222	East Brabant(precipitation)	168	electricity network	291
drains	258	East from Greenwich	41	electricity networks	288
drawing	626	East gardens	267	electricity production	13
drawing tube(sound)	155	Eastern blocks	46	electricity(domestic)	21
drawing(difference)	663	eclipse	38	electro-reclamation	592
drawing(preconditions)	660	eclipse(sun)	47	elm	48, 95
dredge area	338	ecliptic surface	35	elm lanes	378
dredge spoil	338	eco parks	308	elm(iep)	98
dredgers(vegetation-unfriendly) 454		ecocentric	549	elms	92, 99
Drente	59	ecocentrism	659	elms(pavement raising)	87
Driel	207	eco-friendly building	304	elms(poplars)	94
Driel weir	208	ecological community	433	elongated lots	497
Driemanspolder	454	<i>Ecological conditions</i>	404	elongated(town)	135
drinking water inlet	208	ecological connection	420	elongating	267, 268
drinking water supplies	288	<i>Ecological connections</i>	403	elongation(networks)	252
drinking water supply	219	ecological disasters	666	els	376
droogmakerijen	324	ecological diversity	210	elvers	432
dry connections	247, 248, 479	ecological footprint	23	emigration	463, 464
dry periods	208	ecological		emission ceilings	570
dryas octopetala	57	footprint(national(biomass))	23	emission factors	550
Dryas period	57, 58	ecological footprint(national(solar		emission limiting values	570
drying up of buildings(wind velocity)		energy))	23	emission sources	552
.....	110	ecological footprint(national(wind))		emission(dispersion)	550
.....	498	.....	23	emissions	554
dual access	252	ecological groups	385, 393	emissions(mixed)	556
dual network strategy	252	ecological groups(progress,		emissions(variation)	558
dubbele basculebrug	260	decline)	386	Emmen	527
ducks	436	ecological infrastructure ... 389, 417,		empirical research(causal thinking)	
ducts	287	454, 548		.....	660
dune areas	288	ecological potencies(technical		empirical research(generalisation)	
dune birch forest	484	measures)	385	.....	400
dune county	375	ecological processes	486	empty cables	300
dune heath	484	<i>ecological thinking(Dutch)</i>	404	empty pipes	308
dune landscape	497	ecological tolerance ... 366, 387, 666		empty shells	300
dune oak forest	484	ecological typology(scale)	372	empty spaces	649
dune relics	497	ecological values going down ... 443		enclosed effects	95
dune ridge	497	ecologies	391	enclosed horizontally	654
dune valley vegetation(calcium) .. 85		ecology	549	enclosure	249
dune woods	378	ecology(time-space connection)		Enclosure dike	216
dune-grassland	484	.....	644	endoplasmatic apparatus	424
dunes 219, 288, 332, 372, 377, 481,		ecology(urbanization)	664	energetic emissions	554, 558
482, 489		economical conditions	661	energy	12, 710
dune-thicket	484	economical possibilities	661	energy content	13
<i>duration line of Rhine discharge</i> 172		economy(technical infrastructure)		energy conversion	17
dust	553, 556	.....	644	energy flows	32
Dutch coastline	217	ecotope	391, 393	energy profit(wind turbines)	109
<i>Dutch Policy documents</i>	236	Ede	527, 655	energy saving	424
Dutch population	529	edge green(wind)	141	energy slaves	33
Dutch trees	376	edge profile(planting)	68, 70	energy stocks(fossile fuels)	23
<i>Dutch water management(history)</i>		edge space	79	energy storage	33
.....	205	edge(design tools(planting))	71	energy use(buildings(wind velocity))	
Duuren (1997)	431	Edge(hedges)	103	energy use(global,national)	22
Duuren(1997) 361, 431, 432, 438		edge(north-facing, south-facing) .. 81		energy use(Netherlands)	28
Duurzaam Veilig	249, 265, 279	edges(hedges)	103	energy(conversion)	19
dwarswetering	497	edges(planting(profile))	82	energy(dimensions)	12
dwelling occupation	515	education	536	energy(flow diagram)	32
dwelling(occupance)	530	Edward III	492	energy(runoff water)	165
dwelling	266	Eemian interglacial	358	enkele basculebrug	260
dwelling(number, type)	532	Eemshaven	209	enlarge	621, 623
dyke	481	effect analysis(double counting) 573		Enschede	406, 452, 454
dyke occupation	486	effect prognoses	566	ensemble	510, 520, 653
dykes	330, 492	effects(planting)	67	ensemble density 100m	516
dykes(inner edge(nature potential))		efficiency(energy conversion)	19	ensembles	631
.....	433	effluent seepage	330	ensembles(wind)	111
dynamic character(planting)	73	Eh(redox potential)	561	<i>entrance as a seat</i>	394
dynamical ecology	391	EHS	374, 389, 441, 446	entrance section	630
dynamics	399	EHS doelsoort	364	entrances	153, 651
eardrums	154	Eijck, Aldo van	393	entropy	14, 18
earth	313, 393	Eindhoven	426	entropy(increase)	17
earth quakes	213	elderly homes	534	entropy(statistical definition)	16
earth sciences	312, 314	electric cables	298		
earth(biomen)	392				

KEY WORDS BOUNDARIES OF IMAGINATION

entropy(thermodynamic definition)	18	evaporation	166, 169, 170	fence	101
envelope curve	464	even(design tools(planting))	72	fenland communities	498
environment	391, 546, 549, 659	evergreen shrubs	84	fenland community	498
environment(conditions for life)	663	every time having its own place	627	FeO	578
environmental accountancy	552	evolutionary ecology(exceptions)		ferns	47, 355
environmental charts	566		367	ferriferous minerals	320
environmental costs	30	Excel	43	ferry bridge	260
environmental ecology	458	exceptional		ferry terminals	220
environmental engineering	319	occurrences(magnified(television		fertilisation	389
environmental hygiene	550	))	426	fertilisers(artificial)	494
environmental impacts	550	exceptions(average)	426	fertilising	485
Environmental Management Law		exclamations	659	fertility	464
	552	excommunicated	466	feudal system	492
environmental planning	549, 668	exergy	14	Feynman(1977, 1963)	7
environmental policy	236	exit frequency	479	Feynman, Leighton et	
Environmental Policy	423	exits	473	al., 1977, 1963)	470
environmental policy plan	552	exotic species	82	field of vision	624
environmental policy plans	550	expensiveness	627	fields	378
environmental problems	547	experiential value	634	film theatre	538
environmental problems(solved by		experiential value(shape)	634	film theatres	537
urban design)	426	experimental impact assessment		filter(plantation)	81
environmental			111	filtered light	47
problems(solving(conditions(rest		exploitation scheme	513	final use(energy)	33
oring, creating))	548	exploration	627	financial responsibility	513
environmental quality targets	567	Exploratory survey protocol	579, 581	fine dust	556
environmental quality(costs)	568	exploratory survey(soil		fine mode	556
environmental quality(regional,		contamination)	582	fire brigade	263, 294
special, general)	569	exponential formula	129	first law of thermodynamics	13
environmental science	391	exponential growth	462	fish(freshwater(atlas))	433
environmental standards	551	exposition	562	fishery firms	542
environmental strategies	550	exposure(length, frequency)	569	fishing laws	434
environmental tactics	550	exposure(stone, water)	647	fixation	624
environmental technical design	549	express	249	fixation point	625
environmental utility space	570	extending 1 mole of gas	17	fixed two-hinged three-hinged arch	260
environmental-impact statement	562	extensions	649	flageolet	156
environmentally decisive design	664	externalised architectural functions		Flanders	492
environmentally friendly	548		649	flank in wind	135
environmental-usage space	570	extinct(species)	352	flea sedge	396
eons	315, 316	extinction rate	365	Flevopolders(forests)	436
EPEL	569	extinction(230 million years ago)		flexibility	636
			355	floating bridge	259, 260
Epidaurus	629	extinction(230 years ago)	356	floating head	400
epidemics	462	extinction(saurians)	357	floating homes	341
epidemiological research	426	extreme discharges	211	flood control	209
epidemiological		Eyck (1955-1960)	394	flood control and safety	209
research(cause<->effect)	403	Eyck(1968)	427	flood plain	220
epochs	315	Eyck, 1965	394	flood plain management	209
equality	664, 665	Eyck, Aldo van	394	flood plains(ownership)	209
equality(difference)	398	Eyck, et al., 1968	394	flood protection systems	208
equalizing	399	F(fluorine)	555	flooding	342, 343
equations	665	façade relief	656	floods	208
equator	108	façade(approaching)	629	floods 1953	216
eras	315, 316	façade(night, morning, afternoon,		floods by storm surges from the sea	
EREP	479	evening)	657	floods of 1953	209
erosion	320, 323, 461, 464	façade(relief(horizontal, vertical))		floor space ratio	269
erosion of the sandy coastline	219		649	floor surface	502
eruptions of vulcanoes	213	façade(trees)	88	floor(ground, top)	649
es	376, 496	façades	519, 631, 649	floor(intermediate)	649
escape routes	297	facilities	276, 539	floor-space index	512, 513
esdoorn	376	Faculty of Architecture in Delft	41	floor-space ratio	512, 513
esdorp	486	fall	33	flora-counties	393
Eskens, E. (2000)	475	falling water(energy)	33	Floris V	492
establishments	541	fall-out	560	florists	543
esters	554	family dilution	502, 530	Floron	454
estuaries	209, 218, 372	fan cable stayed bridge	259, 260	FLORON Foundation	430
estuary	374	FARI	520	flow diagram(energy)	32
ethylbenzene	591	farmland	497	flower auction	518
etoilement	54	fast bus	249	flowering periods(wetland,water)	61
Europe(vegetation(map))	436	fauna	354	flowering times(grass land,forest)	65
European coasts	477	Fe2O3	578	flowering times(pioneers, ruderals)	63
European diversity and rarity	437	feather like connection	191		63
European nature map	493	Feb	64	fluitekruid	62
eutrophe	386	feldspar	336	flute	156
eutrophication	454	feldspars	336	fluvial area	450
evaluating(conditionally)	428	felsic rock	335	Fluvial landscape	497
evaluation	645				

KEY WORDS BOUNDARIES OF IMAGINATION

fluvial networks	281	funcionalist position	663	German economy	206
fly ash	554	function(area capacity).....	642	germinating time	364
focus.....	625, 631	function(legend).....	663	gewoon herderstasje	387
fog.....	561	function(probable, possible).....	642	gewoon varkensgras.....	387
foliage	47, 48	function(structure(form)).....	663	GHG	329, 578
Follow-up investigation protocol	579	function|time	627	giant butterbur	62
food production	324	functional charge	249, 409	Gids(1986)	118
food web(summit)	424	functional differentiation	634	Gijsbrecht van Amstel.....	492
footpath	249	functional profile	523	GIS	235
footpath(hedges).....	101	functional quality.....	517	GIS system.....	443
force.....	12	functional value.....	634	GIS-applications.....	508
forest(ecological groups).....	386	functional values(economy, culture, administration)	634	Gittenberger(1998).....	430
forest(typical(landscape)).....	377	funding(infrastructure).....	236	GJ	13
forests.....	48	fungi	432	glacials	358
forests(tropical rain)	167	Furgeso-Lees(1987).....	430	glaciation	165
form parameters.....	114	future generations	470	glaciers	194
form quality.....	517	future value	634	GLG.....	329, 578
form(legend).....	663	futures(probable, possible, desirable)	660	global warming.....	236, 238, 423
formal	626	gadwall duck.....	441	golden rain	84
formaldehyde	555	gadwall ducks.....	432	Google Earth.....	208, 221
formal-informal.....	627	galleries	649	Gooi(health)	425
formalist position.....	663	gametes	355	Gool(1986)	20
formation of the land by rivers ..	321	garages.....	545, 588	gothic cathedral.....	459
formation(landscapes)	392	garden.....	626	Gotthard tunnel	297
formation(peat, river, pleistocene sandy)	380	garden(front,back)	45	Gouwzee	432
formations	393	garden(hedges)	103	gradient	396
formula	7	Garms(1977)	356	gradient map	397
forsythia.....	83	Garretsen(1989)	425	Gradient map(1966).....	397
fortresses	205	gas constant	17	Gradientenkaart RPD, 1966.....	397
fortress-like extensions.....	651	gas network	292	gradients.....	397
fossile fuel(biomass(solar power))	22	gas pressure.....	293	gradients around farm and town	485
fossile fuel(biomass).....	21	gas(environmental costs).....	30	grafitti.....	268
fossile fuels	13, 30	gates	204	grain.....	626, 637, 638
foundations(wet)	223	gauge points	560	grain(frame).....	430
fox.....	437, 439	gauges(indicator)	442	grain(rarenes).....	429
fracties.....	326	gauges(nature(present, potential))	442	grain(rareness).....	429
fragmentation	252, 503, 652	gauging network	560	granite	318, 335
frame	626, 637	gaussic plume model	560	grape	47
frame(grain).....	430	Gay Lussac.....	18	graphic industry.....	588
frame(rareness)	429	GDP	511	grass fields	436
Fraunhofer Institut.....	662	gebundelde deconcentratie.....	370	grass land.....	64, 107, 378
Freedman(1975).....	424, 466	Gelderland.....	434	grass land(ecological groups) ..	386
freedom of choice(design(robustness)).....	636	Gelderse Poort	358	grass lands(poor)	387
freedom of choice(difference).....	660	Gelderse Vallei.....	332	grass snake	433
freedom of choice(possibilities(variety)).....	667	gele kornoelje	64	grasses.....	356, 357
freedom of movement.....	17, 18	gele lis.....	61	grassland	496, 497
freedom, equality and brotherhood	469	gele plomp	61	grassland(groundwater level) ..	222
freon	556	Geleen-Sittard.....	527	grasslands	438
frequence	154	gene banks	389	Grave.....	205
frequency divisions	114	genealogy of theories.....	404	gravel.....	87, 393, 577
fresh water	327	generalization(dangereous)	391	grazers	400
fresh water bubble(dunes).....	219	genesis of life	353	grazing.....	485
fresh water(bubble during the dry season)	207	genetic deterioration	389	grazing animals	382, 485
Friesian lake region	438	genetic exchange	389	Great Bear.....	38
Friesland.....	388, 489	genetic richness	352	great titmouses	389
fringe layed out	400	genius loci.....	357	greater burdock(river county) ..	375
fringe(meadowland, forest).....	400	genius loci(biological).....	361	greater plantain	63, 366
front gardens.....	266	genome	365	grebe	437
front(polarisation(connection, communication)).....	633	Gent(1999)	256	green area	275
frontside.....	626	geochronology	315	green areas	474
frost.....	303	geodesy	319	Green Heart	408, 422, 470, 506
frost line.....	344	geographical coordinates.....	43	green lines.....	279
frost-proof.....	344	geography.....	319	green margin	266
frozen ground.....	303	geo-hydrologic isolation	592	green monuments	91
frustration	467	geologic time scale.....	315	green network(water).....	252
FSI....	269, 275, 509, 512, 513, 516, 519	geological cycle	315, 316	green river	215
Fukuyama(1992).....	367, 667	geology	312, 314, 319	green seaweeds.....	432
Fukuyama-expectations	662	geomorphological unit	393	green surfaces	521
		geomorphological unit(flora counties).....	392	green urban areas.....	418
		geomorphology	312, 319	green wall	92
		George(1961)	635	greenery	266, 649
		Gerberligger.....	260	greenhouse-effect	354
				Greenwich	41
				Greiner	651
				greppels.....	225
				Grevelingen.....	210, 218

KEY WORDS BOUNDARIES OF IMAGINATION

grey area	567	habitable land	499	hedges and thickets(limy grounds)	378
greylag goose	436	habitat	371, 391	.....	378
grid.....	190, 191, 277	habitat(animals)	409	hedges and thickets(nutricous	378
grid measure	266	Haccou(1994)	392	grounds).....	378
grid mesh	190	<i>Hachiro Gata Polder in Japan</i> ... 228		hedges(deciduous)	104
grid models(air pollution)	560	haf county(sea clay, peat).....	375	hedges(evergreen).....	104
grid(square, triangular)	81	Hagemeijer(?)	427	hedges(pruning).....	104
grienden	378	Hagestein(weir)	208	Heerlen.....	527
Grime(1988)	389	Halder(2000).....	388	hefbrug	259, 260
Grime. (1988).....	371	half-day crèches/nurseries.....	534	heftoren	259
Groen et al. (1987).....	387	half-through arch bridge....	259, 260	Heidemij	493, 494
Groen(1995).....	405, 430	halogen	554, 555	height belt.....	364
Groene Hart	297	halogenated.....	589	height of buildings.....	44
Groenman (1960).....	475	halogenic hydrocarbons....	555, 556	height of the land	165
Grol.....	205	hamamelis	83	height(standard(wind)).....	112
Grondmij.....	493	Hamburg	501	Heijligers, W	420
grondsoorten.....	326	hamlet	369, 510	Hekstra(1993)	550
grondwater	327	hands	458	Held(1991)	374, 383
grondwaterstanden	329, 578	hangbrug.....	260	Hellevoetsluis	206
grondwaterstroming	578	hanger.....	259	helophyte filters	306
grondwatertrappen.....	329, 578	hankabel	259	Hendriks(1993)	546, 663
Groningen	209	Hannover	437	<i>HEPMEAP'</i>	556
Grontmij.....	494	Hanseatic League	492	herbivore grazing	400
groot hoeffblad	62	Hanze cities	220	herbivores.....	388
Groot(1992).....	439	Hanze period	220	herb-robot	65
gross dots	510	haploid	355	herbs(shrubs(trees))	74
Grote Markt(Haarlem).....	655	Harbour Island	653	herdertasje	62
grote vuurvlinder	388	harbour island(IJburg)	647	heritage(cultural)	206
grote weegbree	63, 387	harbour law outs	220	Herk	652
ground	313, 577	hard	626	Hermans(1982)	34
ground criteria.....	344	hardened surfaces.....	343	herring	492
ground descend	423	hardening.....	485	hertz.....	154
ground ivy.....	64	hard-soft.....	627	Herzberger, H.....	341
ground level in Holland	209	Haringvliet.....	210, 218	hesitate	626
ground pollution	561	Haringvliet(sluices).....	208	heterogeneous	628
ground price	516	Harlingen	220	<i>Hettema and Hormeijer, 1986</i> ...	218
ground prices	275	harmony(hedges)	103	Heukels' flora	364
ground statistics	501	harp cable stayed bridge... 259, 260		Heukels' Flora ... 352, 355, 356, 357	
ground surface index	515	harptuibrug.....	259, 260	heuvelruggen	330
ground water level(grasslands,		Harrison(1964)... 458, 459, 460, 465		hexachloro-benzene	555
crops)	222	harvesting	485	hexachloro-butadiene	555
ground water quality	324	Hausmann	350	hexachloro-cyclohexane.....	555
groundsel	62	Haveneiland.....	653	hexagonal grid.....	277
groundwater	85, 327	Hawkstone Hall.....	348	hexagonal patterns	18
groundwater currents.....	561	Hawkstone, Shropshire.....	349	HF.....	555
groundwater flows.....	169, 329, 578	hawthorn	83, 84, 376	hibiscus	84
groundwater level managed		hazel	64, 377	hide-and-seek	621, 627
artificially.....	222	hazelaar	64	high rise.....	519
groundwater levels.....	222	HCHO	555	high rise at the edge(wind)	141
groundwater protection.....	219	head in wind	135	high rise buildings(ventilation) ...	110
ground-water table.....	327, 337, 578	health	570	high rise on the edge(wind)	144
groundwater tables	329, 578	health facilities.....	534	higher sandy soils	449
groundwater zone	327, 328	health objectives(urban design) 426		highest average groundwater level	329
groundwaterlevel.....	223	health(biodiversity)	365	.....school	624
group accommodations	538	health(civilisation damage)	424	high-speed rail.....	287
growth	463	health(definition)	365	high-voltage.....	298
growth form(trees)	67	health(scale)	365	high-voltage cables underground	292
growyh.....	624	health(towns, income, life style, soil		.....	291
<i>grubbers</i>	400	conditions)	425	high-voltage grids.....	291
GSI	515, 516	healthy city project.....	426	high-voltage transmission.....	287
guide values	567	hear	154	high-voltage transmission lines 291,	292, 554
guiding tower.....	259	hearing.....	624	highway	162, 247, 249
gulden sleutelbloem	389, 390	heart disease	466	highways	190, 191, 272
<i>Gumbel graph</i>	213	heat	34	highways(national, regional, local,	
Gumble graph	213	heat loss(radiation(atmosphere))		city)	190
gusts	112	.....	107	Hildebrandt.....	250
gutter	401	heat pump.....	19	hill ridges	330
GWe	34	heat pumps(energy		hinderance chart	443
gymnosperms	356, 432	contribution(national)).....	31	historic building projects	537
gypsum	553	heathland reclamation.....	496	historic survey(soil contamination)	579
H+N+S.....	409, 445, 506	heating	13	.....	579
H ₂ S	555	heavy metals	588, 589, 592	HMGL	329, 578
H ₂ SO ₄	555	Hedel.....	205	Hoekse en Kabeljauwse Twisten	492
Haagse Beemden	341	hedge(height)	102	.....
Haarlem.....	341, 497	hedges	101, 378		
Haarlemmermeer	527				

KEY WORDS BOUNDARIES OF IMAGINATION

Hoeven and Louwe(1985)	632	human biodiversity	425	immission	562
holiday chalet	538	human capital approach.....	563	IMP Water	569
holistic-vitalistic	391	human centred approach	391	impact(extremes)	111
Holland	327, 491	human dynamic	382	impacts(standard reference)	111
Holland(hooiland)	400	humanity	458	improbable possibilities.....	547
Hollandes IJssel barrier	218	humus	86, 577, 588	in situ purification	589
Hollandse Waterlinie.....	420	hunger.....	462	in water	303
Hollerbroek.....	492	hunting.....	461	in-beteens.....	626
holly	84, 377	husbandry	486	<i>inbetween realm</i>	394, 626
Holocene	359, 372, 373, 374	hut	623	inbetween-realms.....	395
Holy	342	hybrid systems.....	249	in-betweens to hesitate, to decide	627
holydays(dangerous)	426	hydrangea	84	income.....	425
home(nature(distance))	423	hydrated calcium sulphate	553	incomparable values.....	645
homes for the mentally	534	hydrocarbon.....	589	independent variable	663
handicapped	534	hydrocarbons	553, 555	Indicative Long-term Water	569
homes for the those with sensory	534	Hydrofluoride	555	Programme	569
handicaps	534	hydrogen.....	34	indicator species	440, 443
homes per year of construction	533	hydrogen sulphide.....	555	indicator(gauge)	442
homes(Netherlands)	532	hydrogen(environmental costs)	30	indicators	387
homo erectus	458	hydrolic radius	201	indicators(climate, environment)	54
homo habilis	458	hydrological cycle	315, 316, 318	indoor sports facility	538
homo sapiens sapiens.....	458	<i>hydrological maps</i>	235	industrial accidents	555
homogenous	628	hydrological measure points	234	industrial processes	555
homogenous mixture	453	hydrological unit	393	industrial revolution 18, 31, 462, 466	466
Hondsbosse Zeewering.....	219	hydrological unit(communities)	392	industrial voltage	298
hondsdraf	64	hydrosphere.....	318	industrial waste	554
honey-locust.....	84	hygienists	452	industrialization(awareness of	237
Hoofdweg(Baarsjes)	631	hygienists(19 th century).....	405	problems).....	237
Hooghoudt formula	229	hymenoptera(Dutch)	431	industry	543
hoogveen	59	Hz154		infiltration ability	344
hooiland.....	400	iatrogenous	426	informal.....	626
Hook and Cod Disputes.....	492	ice.....	165	informal use(planting)	82
Hook of Holland	208	ice age	437	information emissions.....	554, 558
hop.....	65	ice ages	55, 358	infrared light	22, 107
hope.....	662	ideal typical profiles	379	infrasonic	154
horizon(free).....	407	idealistic position	659	infrastructure	521
horizons(soil).....	325	identifying plants.....	361	infrastructure (funding).....	236
horizontal groundwater flow	578	identity.....	420, 421, 627	infrastructure works(large, logistics)	220
horizontal variation(planting)	68	identity of regions	475	infrastructure(ecological)	417
hornbeam	84, 98	identity of towns	470	infrastructure(major)	217
horse chestnut	83, 84, 89, 93, 95	identity(region, conurbation, town,	523	infrastructure(policy papers, sectors	237
horse chestnut (kastanje)	98	district, neighbourhood)	523	involved)	237
horse chestnut(clay/loam)	85	identity(time or place)	654	infrastructure(separation,	632
horsetails	355	identity(town)	477	connection)	632
horticultural gardens	538	igneous rock	316, 335	inhabitants per hectare	515
horticulture	354, 378	IJ 296		Inhelder	621
Hosper.....	445	IJburg	296, 324, 653	initial abiotic situation(same)	440
Hosper(2001)	421	IJK	207, 208, 209	initial interaction	132
hospitals	534	ijle zone.....	475	initial situation.....	440
hostels caring for vagrants and	534	IJmeer	432	initiative	627
homeless people	534	IJmuiden	216	inner environments	466
host-family care centres	534	IJssel	197, 207, 208, 209, 323, 437	inorganic emissions	554
hotel with 1000 over-night stays per	538	IJssel river.....	207	insecticide.....	555
year	538	IJsselkop -IJK	207	insects353, 382, 388, 389, 426, 431	431
hotels.....	545	IJsselmeer 209, 210, 216, 219, 432,	436, 437, 440	institutional aspect of water	210
Hotzan(1994)	46	IJsselmeer polders	324	management.....	210
hour angle	38, 43	IJsselmeer region	434, 441	insurance companies(fear)	426
hour average wind velocity.....	154	IJsselvallei	332	insurance(children)	465
hour field.....	430	ijsvlakte	122	insurance(health)	425
hour-field frequency	430	IKC	447	integrated reclaiming	342
house.....	623, 626	illness rate.....	562	integrated water management.....	236
house from above	624	image quality	628	integration.....	107, 668
houseboat parks	341	image quality plan	453	integration(scale)	368
household.....	530	image quality(variation)	636	intensity	518
household management(habitat)	460	image(conceptual).....	629	intensity of use	467
.....	460	image(district)	631	intensity(use).....	365
household(electricity use).....	20	image(neighbourhood).....	631	intensity-of-use gradient	485
household(occupants)	502	image(urban(margin(built-up,	649	intention(tradition, opportunity)	636
Houtribdijk	436, 438	vacant)))	649	intercity train.....	249
Houwaart(1991)	405, 452	ImageJ	515	interdependent comparability	440
HSL.....	238, 297	images(assembling)	637	interest.....	627
Huber, H.....	341	imagination	627	interference	251
Huffener.....	622	imagine(possible)	660	interference(networks).....	252
Huisman(1998)	197	immigrants	530		
<i>Huisman, Cramer et al., 1998 ..</i>	169, 170, 227	immigration	463, 464		

KEY WORDS BOUNDARIES OF IMAGINATION

interfunctional activities .....466, 467	Keteldiep..... 209	lateral differences in wind velocity 129
interglacials 358	Kethel..... 341, 342	lateral moraines .....496
Interliner .....249	key actors 475, 476	lateral wind effects .....136
internal boundary layer thickness 130	key to symbols.....663	latitudes 35
internal comparability.....440	kg cargo/inhabitant/day 272	LAVIN .....447
internalised urban functions 649	kilowatt*hour .....13	law of superposition .....316
International Central Commision for Navigation on the Rhine.....206	Kinderdijk 226	lawn .....626
international functions.....477	kinds of clothes..... 627	layered(design tools(planting)) ....72
international waters..... 238	kinetic energy .....34	layers 316
interregional task division .....474	Kinkerbuurt 515	layout of cables and pipes .....307
intervention values.....588	kitch(emotions(prescribed)) 636	LCA.....573
inundate indicated polders preventively 214	Kjehldahl 556	Le Marais.....323
inundation(critical periods).....206	kjeldahl.....554	Le Nôtre.....349
inversion(weather) .....559	klapbrug .....261	lead .....589
investment .....641	kleifractie.....326	leaf cover .....83
inward-directed approach .....549	klein hoefblad .....62	leaf mozaic .....47
irido-alnion.....378	klein kruiskruid.....62	learn.....626
irregular pattern .....81	Kley, 1969.....228	leather industry .....588
irreversible problems .....550	Klijn(1995).....392	leaves(size(soil)) .....84
islands(growing) .....219	Klok(1981) .....60	Leeuwen .....548
islands(Wadden) .....220	KNMI De Bilt(1979) .....560	Leeuwen (1979-1980).....401
isolating pollution .....589	KNMI(1979) .....565	Leeuwen(1959) .....378, 379
isolation technique .....592	KNNV .....454	Leeuwen(1971) .....485, 665
Israel(1995) .....493	knotgrass .....387	Leeuwen(1973) .....485
Israel, J.I. (1995).....475	Kolasa(1991) .....371, 392, 453	Leeuwen(gradientkaart).....397
ivy84	koolzaad .....62	Leeuwen(references).....395
ivy-leaved toadflax .....386	Kornwerderzand .....220	Leeuwen(variation) .....398
J 13	Koten-Hertogs(1995).....461	Leeuwen, 1964 .....395
Jacobs(1961) .....424	Koutamanis(2002) .....667	Leeuwen, 1965 .....396
Jakarta.....220	kraagliggerbrug.....259, 260	Leeuwen, 1971 .....395
Jakubowski(1936).....635	kraanbrug .....261	Leeuwen, Chris van .....394
Jan .....64	Krammerdam .....218	Leeuwen, Chris van .....393
Jansen(1965) .....492	Krebs (1994).....371	Leeuwens van .....395
Jong .....622	Kreekrakdam .....218	legend unit(type) .....637
Jong (1985).....365	Krupp(1995).....367	legend units .....632
Jong and Engel(2002) .....637	Krupp(1996).....662, 667	legend units(mixing, separating)642
Jong and Priemus (2002) .....462	kW .....13	legend units(scale-segmented approach).....642
Jong and Ravesloot (1995) .....628	kWa .....12	legend(adhesion) .....632
Jong and Voordt (2002) .....367	kwel .....330	legend(agenda) .....643
Jong and Voordt, 2002 .....400, 404	kwelwater .....330	legend(cohesion) .....632
Jong(1972) .....659	kWh .....13	legend(efforts, existing, planned) .....503
Jong(1978) .....633	kWhe.....13	legend(scale).....638
Jong(1985) .....110	kWhth .....13	legend(transition) .....643
Jong(1986) .....140	laagveen .....60, 483	legend(typology) .....637
Jong(1988) .....467	Lachiver(1964).....462	legend(unconventional) .....640
Jong(1992) .....549, 659	lady's smock .....64	legend(vocabulary) .....663
Jong(1993) .....571	lagoon .....209	legends .....626
Jong(1995) .....405, 453	lagoon county .....374	legends(scale).....372
Jong(1998) .....479	lake .....247, 249	legend-units infrastructure .....641
Jong(2000) .....391, 406, 570	lake bed(stabilisation) .....433	legend-units landscaping .....639
Jong(2001) .46, 106, 130, 421, 428, 442, 443, 520	land consolidation .....494, 495	legend-units physics and soil .....641
Jong(2002) 354, 428, 462, 464, 658	land reclamation .....209, 221	legend-units town and traffic .....640
Jong(2003) .....161, 188	land registry plans(cables and pipes).....308	Leiden.....391, 491, 497
Jong, M.D.T.M. de, 2002 .....404	land use .....501	Leidscheveen .....123
Jong, M.D.T.M.d., 2002 .....404	land use in the Netherlands .....524	Lek.....208
Joosten(1992) .....439	land/water transitions .....439	Lely .....216
Joustra, et al., 2004 .....395	landaanwinningswerken .....220	Leonard(1977).....461
Julianakanaal locks .....216	landfarming .....590	Leopold.....188, 190
July .....61, 65	landhoofd .....259	Leopold and Maddock .....185
June.....61, 65	landownership .....209	Lepelaarsplassen .....436, 441
June 21st.....37	landscape .....370, 393, 408, 642	lesser celandine .....64
juniper .....84	landscape changes(temperature) .....360	leuning .....259
k(adsorbtion) .....562	landscape development .....312	liberals .....469
kadaster .....597	landscape parks .....370, 642	licencing system.....552
Kamerik .....498	landscape theatres .....639	lichens .....320, 433
Kant(1976) .....7, 659	landscape(cultural elements) ....206	lids .....402
Karlsruhe .....216	landscapes(urban).....642	life communities .....382
Kattendiep .....209	land-use statistics .....444	life community .....391
kattestaart .....388	lane width .....272	life forms(one-celled, multiple-celled) .....353
Kelle(1980)....61, 63, 373, 376, 377	lanes .....264	life span .....364
kerb.....263	large copper butterfly .....388	life style .....425
Kerf.....220	Lascaux .....57	life(risk to die).....426

KEY WORDS BOUNDARIES OF IMAGINATION

life(sea, land).....	355	logical form	659	manor	489
lifecycle.....	425	logical operations	621	manrope	259
lift bridge.....	259, 260	logical reasoning	658	mantouw	259
liggerbrug	259, 260	logistic curve.....	463	manure pollution	550
light	48, 626	logistics(large infrastructure works)		manures(artificial)	486
light permeability(tree)	48	.....	220	manuring	388
light pollution	83	Londo (1997)	366	map cutting.....	514
light requirement(planting)	74	Londo(1987)	66	maple.....	88
light vehicles.....	272	Londo(1998)	352	maple(esdoorn).....	98
light(city,artificial)	48	London.....	501	mapping the environment.....	443
light(water(silt))	436	longitudinal research.....	426	maps.....	319, 610
light(dark).....	627	loose planting scheme	91	Marais.....	323
lighthouses	220	loosestrife	388	March.....	64
lighting	649	lot 510		March 21st	36
lightning power.....	49	Lotke-Volterra	462	margin	264
lightrail	249	lounge(through)	633	margin(built-up area, vacant area)	
<i>Ligtelijn, 1999</i>	394	Lourijsen	651	.....	647
lijndorp	486	low rise at the edge(wind)	141	marginally growing specimens ..	366
lijsterbes	376	low rise buildings(ventilation)	110	margins.....	262
lilies.....	356, 357	low rise on the edge(wind).....	144	margriet	63
liliidae	357	Lower Rhine	208, 209	Marijnissen(1998)	357
Limburg	373, 496	lowest mean groundwater level	329	marine-clay areas	451
lime	48, 92, 95, 98	lowland river	194	Markermeer.....	432, 434, 436, 437,
lime (linde).....	98	<i>lowland system</i>	227	439	
lime tree	91	lowlands.....	481	market	476
lime trees(pavement raising)	87	lowlands with drainage and flood		Markiezaatdam	218
lime(summer)	84	control problems	223	marram(dune county)	375
lime(winter).....	84	L-shape	268	Mars.....	22
<i>limes convergens</i>	396	Ludwig.....	492	marsh.....	372
<i>limes divergens</i>	396	Luhmann (1973)	368	marsh fern-alder swamp	484
limiting condition chart.....	443	Luhmann(1973)	668	Marsh Fleawort	431
limiting factor(minerals)	388	lumen	49	marsh(clay)	433
limiting value	568	lux.....	49	marsh(salt)	433
limiting values	567	lux meter	49	marshland(drainage).....	226
limits to growth	464	lx 49		mass migration.....	466
Limpens(1997)	427, 430	lycaena dispar	388	mass(hedges)	103
line length	285	lye.....	589	Mast Forest in Breda	492
line sources	560, 561	Lyon	501	matchmakers.....	389
linear-shaped legend elements ..	503	Lysen(1980).....	34	material.....	626
liquid extraction	591	lythrum purple	388	material storage	299
lisdodde	61	Maarel(1978)	439	materialistic position	659
litoral drift of the tide	209	Maas, F.	341	mathematics.....	7
liveliness.....	518	<i>Maas, Thieme Meulenhoff</i>)	170	mathematics(equality).....	398
liverworts	355	Maaskant price	219	matricaria discoidea	387
living	546, 626	Maastunnel	296	Maurits.....	493
living layer	340, 593	Maasvlakte.....	238	maximal acceptable level of risks	
living platforms	340	'Maasvlakte.....	324	.....	567
lm 49		Maaswerken	216	may	61
LMGL.....	329, 578	Mabelis(2000).....	442	May	65
LNv	437, 441	MAC	569	McMahon(1983)	155
LNv(1990).....	389	madeliefje	64	McMahon(1987).....	155
LNv(2000).....	420, 575	mafic rock	335	meadow barley(Holocene).....	374
LNv(2002).....	374, 482, 483	magma.....	333	meadow buttercup	65
load bearing capacity.....	344	magnetic properties.....	590	meadowland(prototypes)	400
loam	577	magnolia	83	meadows	378
Lobith.....	169, 171, 196, 210	Main	172	Meadows(1992)	463
lobsters.....	431	main ecological structure	446	meander	194
local average wind velocity.....	111	main port.....	439	meandering	196
local choice of location(wind)	111	main ports.....	477	meanders	194, 323
local highway.....	247, 249	main road(hedges)	101	means(scale).....	368
local highways.....	190, 191	main street.....	247, 249	means-directed	661, 663
local train	249	Main-Danube canal	403	measure	111
location(choice(national))	115	maintenance of public space	513	measure(reference	
location(choice(soil pollution)) ..	576	maintenance		situation(deviation)).....	111
locations(building(national(wind)))		requirements(planting).....	75	measures.....	262
.....	112	maintenance work(planting).....	73	measures(condition)	111
lock	232	maisvelden.....	122	measures(context independent) ..	111
locks	206, 232, 253	Malschaert	655	measures(possible)	138
locust tree.....	377	Malta Convention	287	Mecanoo.....	650
locust tree / false acacia (acacia) ..	98	mammals	353, 389	mechanical emissions.....	554, 558
Loerakker	652	mammals(advance).....	355	<i>mechanical forms</i>	402
loess	326	<i>mammals(atlas)</i>	433	mechanical weathering.....	320
loess region.....	488	mammals(night animals).....	352	mechanisms	402
logarithmic formula.....	129	mammals(saurians extinction) ..	357	median strip.....	271, 278
logic	658	management theory	400	medical day centres for infants..	534
logic(formal)	659	management(culture).....	644	medicine	365

KEY WORDS BOUNDARIES OF IMAGINATION

medicines(use).....	425	Minnaert.....	47	muurpeper.....	63
medieval town.....	476	Minnaert(1968).....	7, 154	MVRDV(Dutch pavillion).....	437
medieval town(functional differentiation).....	634	mirroring.....	266	MWa.....	12
medium voltage.....	298	mirroring transformations.....	268	MWe.....	34
Meerendonk(1998).....	430	mixed emissions.....	554	Myers(1985).....	372
Meerzicht.....	256, 454	mixed husbandry.....	486	Naardermeer.....	439
meet.....	626	mixed sewerage system.....	344	NAP.....	209, 359
meet|retire.....	627	mixing.....	642	Napoleon.....	206
Mehrtens.....	653	MJ.....	12, 13	narcissus.....	83
meidoorn.....	376	<i>MNP, 2004</i>	213	narrow streets(planting).....	93
Meijden(1989).....	375	mobile telephone.....	295	national choice of location(wind).....	111
Meijden(1996).....	352, 389, 392	modality(designer, empiricus).....	442	national highway.....	247, 249
Meijden(1999).....	355, 357, 373, 375, 377, 387, 388, 390, 430	models(complex).....	398	national highways.....	190
Melchers(1991).....	440	module.....	269, 276	national networks.....	280
Melchers(1996).....	430, 437	Moens.....	9, 10, 191	National Plan of Environmental Policy.....	423, 575
<i>membranes(cell)</i>	394	moerasbos.....	498	National Plan of Nature Policy.....	420, 575
Mennema(1980).....	373, 427, 430	Moerdijk zone.....	208	National Plan of Spatial Policy.....	418, 575
Mercator square.....	277	moisture in the air.....	559	national plan of watermanagement policy.....	236
Mercatorplein.....	629, 630, 655	mole of gas.....	16	National Plan of Watermanagement Policy.....	423, 575
mercury.....	554, 589	molecule.....	393	national policy.....	575
meridian.....	41	<i>molengang</i>	227	National Policy Document on Spatial Planning 2, 1966.....	397
merry-go-rounds.....	621	molluscs.....	434	national policy documents.....	205
mesh.....	250	momentum.....	12	national rarity.....	430
mesh density.....	479	money(scarcity, production).....	439	natte omtrek.....	201
mesh width.....	251, 269, 525	Monnikendam.....	340	natural area(types).....	428
mesh width(local motorways).....	473	monocausal explanation.....	666	natural areas(dynamic).....	221
mesh widths.....	273	monocotyledons.....	356, 357	natural gas.....	12, 13, 710
meshes.....	251	monocultures.....	23	natural gas extraction.....	292
meshes.....	479	monofunctional spaces.....	466	natural landscape.....	382
Mesolithicum.....	58	monotony.....	628	natural vegetation(potential).....	481, 484
Mesozoic.....	316, 355, 356	Mont Blanc tunnel.....	297	natural world.....	659
metal and galvanic industry.....	588	montage.....	637	natural(concept(scale)).....	425
metalloids.....	588, 589	Montesquieu(1973).....	635	natural(planting).....	68
metals.....	588, 589, 592	Monuments and Historic Buildings Act.....	287	Naturalis Museum.....	354
metamorphic rock.....	316	mood(planting).....	68	naturalness(planting).....	70
metamorphic rocks.....	318	Mook.....	205	nature.....	491, 627
meteoric collision(65 million years ago).....	352	moor.....	374	nature conservancy.....	447
meteoric impact(65 million years ago).....	357	moor land.....	372	nature conservation.....	459, 495
meteorology.....	317	moorland morphologically reconstructed.....	632	nature conservation plan.....	389
methane.....	554	morphology of a river system.....	186	nature development.....	459
method(composition analysis).....	628	Morris Davis.....	193	nature in exile(hygiene).....	426
methylene chloride.....	591	mortality rate.....	562	Nature Policy.....	420
metro.....	249, 285	Mosel.....	172	nature target types.....	384
metro lines.....	299	mosquito's.....	366	nature work-groups.....	433
metro networks.....	297	moss.....	47	nature(appreciation).....	440
metropolis.....	190, 510	mosses.....	433	nature(clay).....	433
metropolis density _{30km}	510	mosses.....	320, 352, 355	nature(concept).....	428
Meuse.....	169, 208, 209, 219	most practical means'.....	551	nature(mowning).....	455
Meuse works.....	216	mother.....	621	nature(programme of requirements)	636
mica.....	336	motoric ability.....	621	nature(railway line).....	454
micas.....	336	motoric deprivation.....	467	nature(relief-rich infrastructure).....	454
Michels(1993).....	155, 160	motorical polarity.....	633	nature(verges).....	454
micro climate.....	382	motorways.....	525	nature(water courses(urban(old)))	454
micro climate(wind).....	111	moultling period.....	438	nature(water level management)	437
Midden-Delfland.....	342	movable.....	626	nature-target types.....	444, 447, 448
Middenoverspanning.....	259	movable-non-movable.....	627	Natuurbeschermingswet.....	364
Middle Stone Age.....	58	moving vans.....	263	natuurdoeltype.....	420
migrations.....	461	mowing.....	485	Natuurmonumenten.....	445
Milan.....	501	mowing grasslands.....	66	Nauta(1995).....	427, 430
mi-lieu.....	401	mowing policy.....	66	nearness.....	632
milieugebruiksruimte.....	570	mud flats.....	482	Nederlands Normalisatie Instituut	288
millet grass-beech.....	484	mullein.....	84	Nederlandse monumentenwet.....	287
mind of technology.....	662	multimodal intersections(travel resistance).....	475	neighbourhood.....	510, 624
mineral gradient.....	485	multiple span beam bridge.....	259, 260	neighbour.....	623
mineral oil.....	588	Mumbai.....	511	neighbourhood.....	272, 369, 623
mineral transporters(animals).....	424	Munich.....	501		
mineralen.....	333	municipal costs.....	275		
minerals.....	333, 335	municipal land development.....	265		
minimisation(energy losses(wind velocity)).....	110	municipalities(population).....	526		
ministries involved.....	237	museums.....	538		
Ministry of VROM(1990).....	571	music.....	154		
		music and creative arts centre.....	538		
		music school.....	538		
		mute swans.....	432, 436		

KEY WORDS BOUNDARIES OF IMAGINATION

neighbourhood density	515	nomenclature(plant species).....	352	one-dimensional pollution models	.....561
neighbourhood density300m	513	nomenclature(scale(biology,		Ooievaar.....	401
neighbourhood facilities	269	urbanism))	392	oorgatbrug.....	261
neighbourhood image	631	nominal measure	271, 393	Oosterschelde... 210, 217, 218, 440	
neighbourhood islands	269	nominal value	369	Oosterschelde barrier	218
neighbourhood quarter	140	non residential functions	274	Oostvaarders plassen	210
neighbourhood quarters	269	noon	46	oostvaardersplassen.....	436
neighbourhood road.....	269	Noord-Brabant.....	83	Oostvaardersplassen.....	436, 441
neighbourhood road'	265	Noordhuis(2000).....	441	open area	512
neighbourhood roads.269, 272, 273		Noordzeekanaal	216	open areas(central, peripheral) .417	
neighbourhood street.....	249	normal Amsterdam level	209	open areas(function).....	409
neighbourhood(allotment(wind)) 111		normal test population	367	open space.....	407, 519
neighbourhood(polarisation).....	634	North	496	open space(hedges).....	103
neighbourhood(wind)	140	North Brabant	494	open spaces(woodland)	74
NEN	395	North gardens	267, 268	open water	438
NEN standard	288	North -Limburg.....	496	open water storage	344
NEN standards.. 292, 293, 294, 306		north pole.....	35	open-air sports facility	538
neolithic revolution	461	North Sea.....	219	open-closed theory	395
neonlights	624	North Sea Canal.....	216	opening to a hamlet	249
Nes and Zijpp (2000)	190	North-east polder.....	498	operational motoric abilities	627
Nes(2000)	247, 479	Northern light rooms.....	267	ophaalbrug	260
nesting-boxes.....	403	note(music).....	154	opportunities.....	391
net density	251	Nôtre	349	opportunity-directed	468
net dots.....	510	Novelli(1989)	648	Opschoor(1994)	461
net human density	499	NOx.....	554, 555	optical fibre networks	288
Netherlands Standardisation		NRO2.....	476	options(left-over)	443
Institute	288	NRO3	476	orchard	497
Netherlands submerged	205	NRO5.....	477, 505, 506, 507, 526	orchards	378
Netherlands(international task) .481		N-S elongating.....	268	orchids.....	357
network.....	478	N-S mirroring	267	order	14, 18
network city	476	number of houses per ha	514	order(chaos).....	109
network city(traffic concept).....	474	nurse crop system	73, 74, 78	orders	392
network(green, water).....	252	nurseries.....	534	orders(synecological).....	383
networks	287	nursery grown tree	99	organic emissions	554
networks for gas, electricity and		nursing homes.....	534	organic matter	325
water	288	nutriciousness.....	386	organic mercury	554
networks(alternating)	252	oak	84, 88, 95	organic phosphorus	554
networks(dry, wet)	258	oak and ash forests(moisty).....	378	organisation(temporal).....	467
networks(elongation, bundling) .252		oak forest	372, 484	organohalogens	590
networks(municipal regulations)300		oak forests(acid not poor grounds)		oriels	649
New Amsterdam Level	359	.....	378	orientation.....	627
New Map of the Netherlands 2000		oak forests(acid poor grounds) . 378		oriënterend onderzoek.....	579
.....	504	oak(coastal)	84	original landscape	382
New York.....	510	oak(eik)	98	orthogonal system.....	250
Newton, 1687	470	oak(pavement raising).....	87	orthopolar	633
NGOs	236, 238	oak, ash forests(dry grounds) ... 378		Osdorp.....	517
NH ₃	555	oak-beach forest.....	372	OSR	518
nickel	589	oak-beech forest.....	482	other people	627
Nie(1996)	427, 430	oak-hornbeam	484	Otto III	490
Nienhuis(1993).....	550	oaks(slow growing).....	94	outdoor space(comfort).....	109
Nieuwe Merwede	209	object and context	621	outlet canals	225
Nieuwe Schans	205	object constancy.....	621	outside space(green, blue).....	649
Nieuwe Waterweg.....	218, 287	objects.....	623	outside spaces	654
Nieuwegein	504	obstacle fright	264	outward boundaries	659
night animals	352	occupance per dwelling.....	530	outward-directed approach.....	549
Nijmegen	391	occupancy(dwelling).....	533	overall solution	470
Nijs(1995)	161	occupants per household.....	502	overflow system	305
Nijs, L.(1995).....	161	ocean	165	overflows	305
nitrate	437, 556, 589	octaves	154	overhanging(design tools(planting))	.....72
nitrate cycle	462	Odum(1971)	391, 392	overhangs.....	649
nitrites.....	589	oikos.....	444	Overijssel.....	332, 388, 498
nitrification	562	oil pipelines	287	overloading.....	628
nitrogen	22, 382, 556	oil platforms	296	overpass.....	259
nitrogen cycle	486	oil(crude).....	13	overtones.....	155
nitrogen manure	382	oil(environmental costs)	30	overtones(instrument).....	159
nitrogen oxide	553	oils.....	588	overview	624
nitrogen oxides.....	554, 555	Old	650	oxe-eye daisy	63
NMP	571	Old Rhine	491	oxidation process(fauna)	354
NNAO(1987)	495	Oldenbarneveld	493	oxigen	22
NNAO(Ontspannen scenario) ...468		oligotrophe	386	oxygen.....	354, 425
Noah	365	olivine	318, 334	ozone.....	561
node(sound)	155	OMA	505, 506, 507	ozone layer	556
nodes(patterns(tree, feather)) ...192		onderdoorgang	259	paardebloem	62
noise	160, 626, 627	one way traffic	279	paarse dovenetel	62
noise on façade.....	272	one-celled life forms	353		
noise(traffic, aviation).....	161				

KEY WORDS BOUNDARIES OF IMAGINATION

Jong.....	479	peat.....	58, 326, 374, 377, 483, 577, 588	Pianka(1994).....	352, 367, 371, 463
paint and dye industry.....	588	peat areas.....	205	piano.....	154, 156
pairing messengers.....	426	peat bog.....	498	pier.....	259
Palaeozoic.....	355, 356	peat bog area.....	497	piezometric level.....	328
Palenstein.....	454	peat bogs.....	498	pijler.....	259
paleo-geographic maps.....	319	peat counties.....	388	pijklkruid.....	61
Paleozoic.....	316	peat deposits(subsiding).....	208	pile heads.....	338
Palladio'.....	629	peat exploitations.....	482	pine forests.....	482, 555
Pampus-West.....	433	peat extraction.....	498	pineapple weed.....	387
PAN.....	555	peat formation.....	58, 433	pine-spruce forest.....	372
Pannerdensch Kop-PK.....	207	peat formations.....	59	pinksterbloem.....	64
Papendrecht.....	272, 273, 274	peat ground.....	579	pioneer environment.....	454
paper instrument(height).....	44	peat layer.....	222	pioneer species(planting).....	78
papillionaceous flowers.....	382	peat polders.....	225	pioneer vegetation.....	382
parabolic formula.....	130	peat soil.....	222	pioneer(ecological groups).....	386
parabolic-shaped sand dune.....	496	peat soils.....	87	pioneering plant.....	63
paradox.....	368	peat stream.....	497	pioneering-plant.....	62
paradox of spatial arrangement.....	401	peat(drying).....	225	pipe.....	401
paradoxical concepts.....	642	peat(formation).....	380	pipe drains.....	225
parallax.....	621, 623	peat(use).....	333	pipes.....	88
parallel.....	36	pedestrian.....	263, 281	pipes and cables outside built-up areas.....	290
parallelogram(surface).....	250	pedestrian crossings.....	649	pistils.....	389
parapet.....	259	pedestrians.....	263	piston.....	19
parasites.....	389	pedology.....	327, 328	PK.....	207, 208, 209
Parc de la Villette.....	350	peekaboo.....	621	PKB.....	215
Parc de Sceaux at Paris.....	348	Peel.....	59, 439	plaatliggerbrug.....	260
Parc de Sceaux in Paris.....	349	Pekalska, 2005.....	391	place(hedges).....	103
Parc des Buttes Chaumont.....	348	pendular water.....	86	plan layers.....	504
Parc des Buttes Chaumont in Paris.....	350	pentachloro-phenol.....	555	Plan Ooievaar.....	401
parcel.....	510	people per dwelling.....	469	Plan Ooievaar -1986.....	236
parcellations(theoretical).....	517	perchloroethene.....	591	plane.....	48, 89, 93, 98
parent material.....	324	perchloroethylene.....	589	plane tree.....	67
Parent material.....	324	perennials.....	67, 84	plane trees(width).....	88
Paris.....	323, 501	perifery/area ratio.....	250	plane(plataan).....	98
parking.....	263, 275	periods.....	315	planes(pavement raising).....	87
parking areas.....	87	peripheral open space.....	417	planned expenses(transparency, democratic decision making, political consistency).....	236
parking lots.....	47	peripheral road.....	276	planning horizon.....	237, 647
parking places.....	262, 266, 268	periphery(centre).....	634	planning layer.....	503
parking standard.....	266	peristylum.....	630	planning(spatial).....	467
parks.....	626	permeability k of soil types.....	229	planological index numbers.....	502
Parma.....	493	permeability(soil).....	228	Planologische Kernbeslissing.....	215
Parsons(1966).....	635	Permeta.....	517, 518	plans(perspective).....	445
Parsons(1977).....	635	Permian.....	316, 354	plant bed(dimensions).....	76
particle size.....	326	peroxide-acyl-nitrate.....	555	plant beds(<6m wide).....	79
particle size fractions.....	577	perpendicular blocks.....	268	plant communities.....	441
particle sizes of soil types.....	326	persicaria.....	63	plant identification(height belt, areal position, use, germinating time, life span).....	363
particle-size distribution.....	577	perspective(changing).....	647	plant identification(height, growth form, flowering time).....	361
particulate matter.....	556	perspectives.....	419, 445	plant identification(Heukels' flora(family, genus, species)).....	363
partition(design tools(planting)).....	71	perzikkruid.....	63	plant identification(leaf form, flower colour).....	361
partition(hedges).....	103	pest epidemic.....	462	plant identification(leaf form, flower colour, sex, light, moist).....	362
passableness.....	344	pest epidemics.....	492	plant identification(name(scientific, english, dutch)).....	361
passengers per day.....	285	pesticide industry.....	588	plant.....	
passengers per hour.....	285	pesticides.....	589	identification(nutrients, acidity, salinity, dependency ground water, root depth, water flow).....	363
passengers per stop.....	285	Peters(2001).....	569	plant identification(occurrence in The Netherlands).....	363
path.....	247, 249	petrographic microscope.....	319	plant identification(occurrence in The Netherlands, protection).....	363
path around the back.....	266	petrol.....	12, 13, 588, 591	plant kingdom.....	352, 430
path round the back.....	267	petrol stations.....	545, 588, 592	plant kingdom(division).....	356
pattern on pattern.....	399	pH.....	561, 562	plant material.....	74
pattern on process.....	399	Phanerozoic Eon.....	316	plant taxonomy.....	357
patterns(tree, lattice).....	190	phase.....		plantago maior.....	387
paucicausal.....	666	gas, liquid, solid.....	590	Plantago Major.....	400
pavement.....	88, 249, 264, 267, 626	phenol.....	592	plantain.....	387
pavements.....	623	Philp (2001).....	366, 367		
pavements(ants).....	47	phosphate.....	437		
paving(porous).....	86	phosphates.....	554, 555, 589		
paving(sinking areas).....	87	phosphorus.....	554		
paving-stones.....	263	photo-chemical smog.....	555, 556, 560		
Pavlov-reflex.....	621	photovoltaic cell.....	664		
PCB.....	555, 589	phreatic level.....	327, 328, 578		
PCT.....	555	physical conditions.....	546		
peak flows.....	208	physical determinists.....	460		
peak hours.....	269, 272	physical weathering.....	320		
peak loads.....	34	physical-geographical region.....	448		
peak stress.....	558, 569	Piaget.....	621		
peak times.....	293				

KEY WORDS BOUNDARIES OF IMAGINATION

plantation.....	626, 627	policy levels	237	Pre-Boreal	58
plantations	639	policy paper on spatial planning	237	precipitation	166, 168, 169, 170,
planting distances	94	policy paper on water management	237	306, 423	
planting distances(trees)	88	.....	237	precipitation(continental)	168
planting effects	68	political consistency	237	precipitation(global)	167
planting elements	67	political programmes(concentration,		preconception	658, 659
planting forms	75	deconcentration)	469	precondition	659
planting scheme	94	pollard willows	378	preconditions for life.....	659
planting trees close together	94	pollarded willow(knotwilg)	98	predators	382, 462
planting(cables)	87	pollen	389	<i>predict</i>	547
planting(climatological conditions)		pollen dating	360	preparing of the site	312
.....	83	polluting	485	prerequisite	659
planting(physical		pollution(air(dispersion)).....	120	preselection	424
environment(urban)).....	78	pollution(awareness of problems)	237	presence.....	436
planting(soil).....	84	polychlorobiphenyl.....	589	pressure differences(wind) 142, 148	
planting(visual effects)	67	polychloro-biphenyles	555	presupposition	659
planting(wind).....	93	polychloro-therphenyles.....	555	presuppositions (suppressed) ..	445
plantpit	87	polycyclic aromatic hydrocarbons		presuppositions(computerprogram	
plants	389	.....	592	ming)	668
plants(energy conversion)	21	polygonum aviculare	387	preventing informal use(planting)	82
plants(urban use).....	82	polynomial.....	529	prey.....	462
plastics	555	polystyrene	340	Prigogine	109
plate tectonics	315	pond	247	Primary Ecological Structure	438
platform	259	pontbrug.....	260	primary education	536
platforms.....	649	Ponting (1992)	461	primula veris.....	389
play	626	ponton	259	priorities and criteria	236
playground	623	pontonbrug.....	259, 260	priorities in the use of time.....	468
playgrounds(hedges)	102	pontoon	259	priority substances.....	568
playhouse	538	poor grass lands	387	privacy	266
playing tag	621	poor soils	66	private control	268
Playstation.....	623	poplar	48, 64, 376	private space	514
Pleistocene.....	358, 372, 373	poplar(coastal).....	84	private surface.....	516
pleistocene(formation)	380	poplar(populier)	98	privet.....	84
plot.....	510	poplars	378	probability	15
plot division(shadow)	45	poplars(elms).....	94	probability distribution	213
plot(regulation)	46	poplars(growth).....	83	probability of concentration.....	15
plots(narrow,deep)	45	population	391	probable	547
plots(private)	513	population densitie(habitat)	459	probable(future)	660
plough.....	462	population dynamics	462	problems(urban, architectural) ..	549
ploughing.....	485	population fluctuations	462	process emissions	553
plutonic rock	334	population(continental)	529	process on pattern	399
<i>PM(traffic contributions)</i>	556	population(expectations)	465	process on process.....	399
PM ₁₀	556	population(isolation)	389	procumbent pearlwort	386
poa annua	387	population(minimum)	389	profile key	271
pochards.....	436	population-density	499	profiles(ideal typical formations)	379
pocket money	623	populations	371	prognoses(categorisation)	444
poësis	660	populier	64	programme of	
point sources.....	560, 561	porches	649	requirements(assigned,	
pointillistic representation	418	pores	327	additional(intention of designer))	
poison	425	portal bridge.....	259, 260	.....	636
poison(resistance)	565	possibilities for future generations		projection|identification	627
polar axis	35, 37	.....	470	projects.....	419
polar front	559	possibilities for future life.....	421	projects(consequences(small,	
polar ice caps	318	possibilities(economical supply,		large)).....	477
Polaris	38	choice(freedom)).....	367	properties of soils.....	324
polarisation(open, closed)	633	possibility(difference)	665	property	510
polarisation(public, private)	634	possibility(set of conditions)	669	proposals.....	659
polarity(scale).....	633	possible.....	547	protection of plant species.....	364
polarity(sensoric, motoric)	633	possible measures	138	Protocol for follow-up investigation	
polarity(structure)	633	possible(future).....	660	.....	585
polder	221	possible(imagination)	660	Protocol voor het nader onderzoek	
polder(site preparation)	338	Postjes neighbourhood(Baarsjes)		.....	579
polders.....	208, 224, 228, 324, 374	.....	631	Protocol voor het oriënterend	
polders(different altitudes)	226	potential emissions.....	554, 558	onderzoek	579
<i>polders(history)</i>	222	potential energy	33	prototypical plans influenced by the	
Pole Star	38	potential natural vegetation	484	ground.....	348
police	263	potential of territory.....	392	provincial highway.....	249
policy document on spatial planning		potential wind velocity	112	<i>pruners</i>	400
around 1960	237	power	12, 710	pruning	98
policy document on traffic and		power of attraction.....	470	pruning hedges	104
transport.....	237	power station	20	pruning methods	89
policy document(revisions every 10		power stations(capacity)	31, 32	prunus subhirtella 'autumnalis' ..	84
years)	237	practical value.....	634	psychiatric disorders	466
<i>policy documents</i>	236	practitioners	534	psychiatric hospitals.....	534
Policy documents(political		Prague	501	pteridophyta	355
consistency).....	237	prawns	431	public and private sector(target)	236

KEY WORDS BOUNDARIES OF IMAGINATION

public and private spaces.....	466	rarity.....	421	Reichow.....	281
public disclosure.....	236	rarity resolution.....	429	relamations.....	496
public facilities.....	524	rarity resolution.....	430	relation theory.....	398
public green surface.....	516	rarity(criterium).....	429	relief.....	344
public health facilities.....	534	rarity(distance to the nearest x examples).....	429	relief(frequency).....	656
public housing policy(hygiene) ..	405	rate of growth(planting).....	74	remediation intervention values.....	587
public paved surface.....	516	rats.....	366	remediation techniques.....	589
public pavement.....	265, 266	raw materials pipe lines.....	296	removals.....	532
public sector(reform).....	238	RE.....	584	repeating details.....	632
public space.....	514	real estate price(water's edge) ..	642	repetition.....	628
public space(light).....	48	receding(design tools(planting)) ..	72	replaceability.....	439
public space(maintenance).....	513	recessed floors.....	649	replaceability.....	392, 421
public transport(stops).....	473	recesses(façade).....	649	representing existing areas.....	503
Public Works.....	493	reclaimed land.....	205	reproduction factor.....	464
public works time schedule.....	299	reclamation.....	208, 221	reproduction(water, vegetatively)	355
pumping and drainage systems	210	reclamation and drainage of polders.....	226	reproductive organs(recognisability)	357
pumping station.....	338	RECLUS (1989).....	479	reptiles.....	353, 389
pumping stations.....	224, 225	recognisability(species).....	357	requirements for human life(direct, indirect).....	549
pumps.....	214, 221, 222	recognition 368, 625, 626, 627, 628, 665	357	research(diminishing returns)....	427
puppet theatre.....	538	recognition|surprise.....	627	research(urban, architectural) ..	549
purification techniques.....	589	recovery.....	440	residential area per inhabitant ...	502
purification works.....	205	recreation(open space(size, altitude)).....	409	residential areas.....	263, 501
purple dead-nettle.....	62	rectangular grid.....	278	residential areas(industrial areas)	569
pyramid.....	519	rectangular patterns.....	18	residential courts.....	82
pyroxeen.....	336	rectangularity.....	250	residential parking.....	276
pyroxene.....	336	recurrence time.....	212, 213	residential paths.....	272, 275
pyroxenes.....	336	recurrence time(calculation).....	213	residential street.....	263, 265
quadrangulation.....	488	recurrence time(floods).....	210	residential streets.....	264, 272
quality.....	367	red legend.....	251	residential surface.....	514
quality standards(ground, water, air).....	551	red list.....	365	residential walk.....	249
quality(%built-up surface).....	517	Red List.....	438	residents per continent.....	529
quality(form, structure, function)	517	red oak.....	377	resistance.....	666
quality(space, time).....	439	red shank.....	63	resistance(biological).....	426
quality(variation).....	667	red-listed birds.....	438	resistance(poison).....	565
quarter.....	369	red-listed species.....	433	resolution.....	429
quarter(neighbourhood).....	140	redox.....	562	resolution(drawing).....	637
quartz.....	336	redox potential.....	561	resolution(frame, grain).....	430
Quaternary.....	358	reduction into the average.....	400	resonance.....	159
questions.....	659	reduction of diversity.....	665	respect from the public.....	82
R.W.D.....	344	reduction to the average.....	399	responsibility of the designer.....	547
race.....	247, 249	reed marsh.....	372	responsibility(species).....	365
racess.....	225, 258	reed morass.....	436	restaurants.....	545
radial.....	277	reed vegetation.....	438	retailers.....	543
radial lines.....	282	reference environment.....	458	retention.....	214
radiation.....	48, 558	reference images.....	637	retention basins.....	214
radio and television.....	295	reference situation(deviation) ...	111	retire.....	626
radius of awareness.....	621, 622	reference(choice).....	111	Reuzer(1999).....	479
raft bridge.....	261	reference(internal, external).....	443	reversible.....	156
ragged and soft(design tools(planting)).....	72	reference(nature(historical(climatic change))).....	443	revolutions(natural history).....	355
railway network.....	494	references(change).....	111	Rhine 169, 196, 206, 209, 211, 219, 479	
railway network(density).....	525	refinery.....	13	Rhine axis.....	476
railway station.....	286	reflection(solar power).....	22	Rhine branches.....	209
railways.....	286	reflexive judgements.....	368	Rhine canalisation.....	207
rainfall.....	210	refrigerator.....	19	<i>Rhine river basin</i>	170
rainwater.....	305	refuge hill.....	220	Rhine(catchment area, precipitation, evaporation)....	170
rainwater discharge.....	344	regional choice of location(wind)	111	Rhine(discharge, variation).....	171
raise the level of the ground.....	454	regional density.....	370	<i>Rhine(normal probabilities per discharge class)</i>	212
raising.....	485	regional highway.....	247, 249	Rhine(Old).....	483, 491
raising with sand.....	339	regional highways.....	190, 191, 272	<i>Rhine(potential vegetation structure and land use)</i>	215
ramps.....	649	regional networks.....	280	<i>Rhine(Source)</i>	171
Randmeren.....	434, 437	regional policy.....	575	rhododendron.....	83, 84
random walk.....	188	regional rarity.....	430	rhododendron(acid soils).....	85
Randstad.....	408	regression(polynome).....	151	rhythm(design tools(planting))....	72
Randstadgroenstuctuur.....	420	regular pattern.....	81	richness in species(urban).....	454
rank size.....	526	regulation.....	401, 402	ride.....	285, 627
rape.....	62	regulation theory.....	398, 401	ride a bike.....	627
rare plant species(urban, national)	407	regulation(plot).....	46	Riemsdijk and NOBO (1999).....	367
rareness.....	368, 392	regulators.....	402	Riemsdijk, 1999.....	400
rareness and replaceability.....	494	Reh.....	639		
rareness(artefacts).....	429	Rehbock laboratory.....	216		
rareness(grain).....	429				
rareness(urban).....	475				
rarified zones.....	474, 476				

KEY WORDS BOUNDARIES OF IMAGINATION

riet.....	61	roller skates	623	salinity	386
right angles.....	250	Roman sites.....	60	salt.....	553
Rijkswaterstaat.....	219, 238	Rome	348	salt intrusion.....	219
Rijncommissie Koblenz	214	Romein, J.M. (1938,1971)	475	salt marsh.....	433
rijvloer	259	roof of public space	47	salt proportion	386
RIN	395	room.....	623, 626	salt spray particles	556, 557
risc-cover for life(variety)	666	Room for the river.....	215	salt vegetations	372
risk assessments	587	<i>Room for the river'</i>	216	salt water	327
risk calculation	426	Room for the Rivers programme	209	salt water intrusion.....	208
risk coverage of life(biodiversity)	352	room(polarisation(sensoric,	633	salt(road)	83
risk coverage(diversity).....	636	motoric))	633	salt-marsh vegetation	484
risk factors for tunnels.....	298	root ball	89	salts of heavy metals	588
risk management	558	root ball(tree)	86	sambuco-berberidion	378
risk of transported material.....	288	rose	84	sanction possibilities.....	552
risk(accepted)	212	rosebay willowherb.....	63, 389	sanctuaries	438
risk(risk avoidance).....	426	roses	67, 84	sand.....	326, 393, 577, 623
risk(species(extinction)).....	365	Ross Ashby (1957, 1956)	398	sand delivery per 'axe'	340
risk-cover for life(diversity).....	366	<i>Ross Ashby, 1957, 1965</i>	395	sand fractions.....	326
risks	558, 567	Rotterdam.....	206, 208, 296, 307, 308,	sand supply.....	219
risks of flooding	173	476, 505, 528		<i>sand supply(North Sea beaches)</i>	219
risks of lowlands(water storage).....	236	Rotterdam(Robeco building).....	83	<i>sand transport(North Sea)</i>	219
risks of non-delivery.....	34	roughness	107	sand(local inland movement)	220
river.....	247, 249, 273	roughness based calculations(wind)	112	sand(usage)	136
river accompanying vegetations.....	372	roughness classes.....	112	sandy deposits	205
river county.....	375	roughness island	129, 130	sandy ground	579
river discharges.....	208	roughness(bed(river)).....	201	sandy grounds.....	247
river floods.....	205	roughness(ground(standard))	112	Sangster(1987)	565
river forelands	378	roughness(homogenuous	140	satellite connections	295
river formation	323	undirected)	140	saturation of soil	327
river section(length)	192	roughness(wind)	122	saturation(vapour).....	166
river(drainage.exe).....	188	roundabout.....	255	Saurian Age	355, 356
river(formation).....	380	roundabouts.....	255, 256	saurians.....	357
<i>river(low land, cross section)</i>	215	rowan	376	saurians(extinction).....	355
river(morphology(transported	194	rowan(coastal).....	84	saw-wort	400
material)).....	194	rowan(nutrient-rich peat).....	85	SBI.....	444
river(ownership)	209	RPD (1966)	369, 370	scale articulation	369
riverbed(widening)	214	RPD (1983).....	370	scale factor(traffic calculation)	474
rivers.....	169, 191, 321, 330	RPD(1983).....	476, 642	scale falsification.....	642
rivers(random walk).....	190	RPD(1988).....	476	scale paradox	368, 453, 668
rivers(regulated, normalised,	205	RPD(1996).....	476	scale parameters	114
canalised)	205	RPD, 1966	397	scale range.....	369
RIVM	573, 575	rubion	378	scale sensitive concepts.....	368
RIVM (2001).....	550	ruderaal.....	62	scale(architecture, politics, ecology)	443
RIVM(2000).....	27	ruderals.....	371, 389	scale(confusion)	369
RIVM(2001).....	374, 481, 483	Ruhr area	476	scale(levels of)	399
RIZA	441	ruilverkaveling.....	494	scaup.....	436
road	162, 249	rules	627	scaup duck	438
road freight haulage companies.....	545	rum cherry.....	377	scenarios(energy supply)	27
road network(density)	525	rumex hydrolapathum	388	Schaminee(1996).....	384
road profiles	266	run.....	623, 626	Schaminée(1998, 2001)	441, 444
road salting.....	83	run|compete.....	627	Schaminee, et al., 1995.....	395
road system 1800	206	Runcorn	281	Scheldt	169, 217
road(district,neighbourhood,ensem	140	Runhaar(1987)	385, 387, 392	Scheldt-Rhine canal.....	218
ble)	140	runoff.....	169	Schenk(1999).....	479
road(support base)	525	runoff coefficient.....	306	scherpe boterbloem	65
roads(district)	190	runoff(catchment areas)	169	Schiedam	341
roads(length).....	525	runoff(slope)	188	Schiermonnikoog	527
roadway.....	263	rural	418	schijfkamille	387
roadways	265	rural areas(arrangement(wind))	111	schipbrug.....	260
Robeco building in Rotterdam.....	83	rural estates	639	Schiphol.....	112, 238, 439
robertskruid	65	Russell(1919)	667	Schiphol tunnel	297
robustness.....	442	rust stains	329	schizophrenia	466
robustness(flexibility, diversity).....	636	ruwe berk.....	64	Schlicher van Bath(1960)	462
rock.....	312, 313	RWS.....	205	school	623, 626
rock salts	34	<i>RWS, 1984</i>	235, 236	schools	535
rock sequences.....	316	RWS, 1998	223	schoorbrug	259, 260
rock textures.....	319	S+N+S(2001).....	421	Schoorl	220
rocks	335	Saalian.....	358	schor.....	497
rode kornoelje	376	safety	268	schuiven	204
rode lijst.....	364	<i>safety standards for floods</i>	213	Schumpeter dynamics	662
<i>Rodenacker, 1970</i>	402	sagging	338	Schumpeter-economy.....	367
Roermond	205	salers	544	science and art.....	659
Rokkeveen	123	salicion.....	378	science(optimizing probable	668
rolbrug	261	saline plant communities.....	482	effects)	668
roll bridge	261	salinisation(irrigation)	401		

KEY WORDS BOUNDARIES OF IMAGINATION

scientific education	536	sewage(autarkic systems)	304	small ditch	247
scots pine	377	sewer	88	smeerwortel	63
screen(hedges)	101, 103	sewer system	343	smog	560
screening(degree)	68	sewerage pipes	288	sneeuwkllokje	64
screening(design tools(planting))	71	Seyp, van de and van Dijk	655	Snep(2000)	442
screening(planting)	69	shade(tree)	75	snow drop	64
sculptural effect	652	shadow	43, 44, 45	snowdrop	83
sea	247	shadow plan	48	Snozzi	506, 507
sea and land winds	560	shadow(trees)	47	SO2	554, 555
sea bed polders	324	shadows(length)	46	soap bubble	250
sea buckthorn	84	shelter|corners	627	social control	82, 466
sea level rise	208	shepherd's-purse	62	social differentiation(administration, culture, economy)	635
sea trade	206	shepherd's-purse	387	social diversity	425
sea water	327	ship bridge	260	social life	663
<i>sealevel rise and subsidence</i>		shipping traffic(locks)	232	social possibilities	661
<i> expected until 2050</i>	211	shops	544, 623	socialists	469
season fluctuations of rivers(snow and ice in mountains)	170	shortest path	277	societal conditions	546
seasonal maximum outside	436	shrinking of the soil	333	soft	626
<i>seating</i> shelter(hedges)	103	shrub bed(hedges)	103	soil	313, 577
second law of thermodynamics	13, 399	shrub distance	80	soil and ground	577
secondary education	536	shrub planting	76	soil complex	393
sediment	194	shrub planting(occasional trees)	76	soil complex(ecological groups)	392
sedimentary rock	316	shrubs	67	soil contamination	324, 332
sedimentary rocks	318	shrubs(sun-loving)	76	soil contamination(follow-up investigation)	585
sedimentation	323	shrubs(water)	85	soil contamination(protocols, methods)	576
sedimentation deposits	359	side façades	268	soil formation	325
seed dispersion	389	side span	259	soil fraction	326
seed-bearing plants	355	side-effects of activities	550	soil fraction diagram	327
seepage	210, 330, 332, 342	sidewalks	263, 266, 267	soil maps	377
Seepage	327	sideways	190	soil mechanics	326
seepage areas	331	sieve analysis	443	soil particles	590
seepage water	330	silicate	589	soil pollution	576
seepage(phosphate, iron)	454	siliceous sea weeds	432	soil pollution (forms, industry)	588
seepage(saltwater, freshwater, brackish water)	330	silt393, 436, 577		soil profile	393
seesaw	621	silt fractions	326	Soil Protection Act	576
segmentation(façade(vertical, horizontal))	649	siltfractie	326	Soil Protection Guidelines	579
segmenting(morphological reconstruction)	632	silver birch	64	soil quality	576
Seine	323	single-family households	530	soil recovery	589
<i>selection</i>	401, 424, 467	single-leaf bascule bridge	260	soil scienc	312
<i>selection and regulation</i>	402	single-person households	533	soil science	324
selector	467	sinking areas	87	soil slurry reactors	591
selectors	401	siphons	253	soil spray	386
<i>selectors</i> (.....)	401	sit 626		soil structure	326, 382, 393
self-sufficiency	367	site preparation	337	soil types	326
semantic conditional sequence	661	site preparation(methods)	338	<i>soil types and average annual runoff</i>	170
semantic Venn diagram	659	site preparation(polder)	338	soil unit	393
semi-public spaces	82	site preparation(purification)	593	soil unit(cooperation, competition)	392
senses	7	siting of plants	82	soil vapour	579
sensoric deprivation	467	sitosterol	388	soil vapour extraction	591
sensoric polarity	633	Sitte	255, 277	soil vapours	592
separate sewage system	305	Sitte (1889)	255	soil water	327, 578
<i>separating and connecting</i>	402	sitting area(hedges)	102	soil(drainning an area)	222
<i>separating flows</i>	404	skateground	623	soil(functions)	577
separation	399	skeletons(chalky)	355	soil(open, closed)	86
separations in space and time	467	sketch	430, 626, 637	soil(permeability)	228
separations(connections)	393	sky dome	39	soil(spray, digged, treaded)	386
September 23rd	36	slagenlandschap	497	soil(vibration(heavy traffic))	86
Serratula Tinctoria	400	slide	623	soils of The Netherlands	85
service economy	476	slik	497	soils(plant diversity)	66
service vehicles	263	Sloedam	218	soils(properties, use, management)	324
service vehicles/24 hour intensity	272	Sloep	400	solar capacity	36
service visits/inhabitant	272	Sloep, 1983	398	solar cell	20
set-theory	659	slope	257	solar cells	20
settlement of the ground	338	slopes	261	solar cells(costs)	21
settlements on sandy soils	489	slopes(road)	257	solar constant	22, 35
sewage	303	sloten	225	solar energy(slow development)	31
sewage pressure pipelines	288	slotted flags	87	solar images	47
sewage system	299, 303, 304, 306	<i>slowing down the cars</i>	264	solar power(global)	22
sewage systems	294	<i>Slufter on the isle of Texel</i>	221	solar time	41
sewage water	294	slufters	221	solitaires	83
		sluice	232		
		sluices	206, 221, 231		
		sluices(capacity)	220		
		sluices(one way)	224, 225		
		<i>sluices(open, closed)</i>	402		
		Sluis	209		

KEY WORDS BOUNDARIES OF IMAGINATION

solitary trees.....	91	sport and violence	467	street profile	299
solubility.....	590	sports facility.....	538	street profile()	631
solvents.....	588	sprawl.....	18	street village.....	489
<i>Sonsbeek paviljoen (Arnhem)</i>	394	sprawl(urban).....	369	street(image).....	629
soot.....	553	spray cans	556	street(polarisation)	634
sound.....	154	spring(flowering).....	83	streetcorners	268
sound(impression)	158	spruce	48	streetlamps.....	48
sound(intensity).....	156	squares(façade margins)	655	streets.....	631
sound(power)	156	squares(through-traffic).....	654	streets(planting(size))	93
sound(spectrum).....	159	sr 49		streetscape.....	88
sound(travel speed).....	155	St. Elizabeth flood	492	stress tolerators	371
sound(tube).....	155	St. Petersburg.....	653	stress-tolerators	389, 390
soured forests	389	Stadtholders	492	stretch.....	250
South Flevoland.....	438	stage in the lifecycle.....	425	stretching.....	252
South garden.....	47	staghorn.....	355	Strickler-Manning.....	201
South gardens.....	268	Standaardverkaveling.exe	265	string(sound)	156
South Limburg(formation).....	381	standing whirl.....	152	structural quality	517
South-Limburg	496	Staphorst	466	structuralist position	663
southwest wind	559	startbanen	122	structure	399
South-Western winds.....	109	state of dispersion	369	structure ecology.....	401
Space Mate	517	static character(planting).....	73	structure(divisions, connections)	
spaces(boundaries)	394	station stops	473	.....	632
spaces(expanding(green)).....	88	stationers	544	structure(form, function)	632
spaces(shrinking(red, brown)).....	88	stations	286	structure(legend).....	663
space-time dilemma(size, distance		Statistical Pocket Book.....	523	structure(nearness, infrastructure)	
to residential area).....	410	stature	624	.....	632
spacious effect	277	steam engine	31, 493	structure(parts, whole).....	632
span(bridge)	260	Stedenland perspective.....	477	structure(planting)	68
sparrows.....	366	Stedenland perspective (VROM		Structure(planting)	71
<i>spatial and temporal variation</i>	398	1998)	478	structure(polarity)	633
spatial composition(streetscape).88		Steegh(1985).....	487, 488, 489, 491	structure(separation, connection)	
Spatial Planning Key Decision ..	215	Steekenburg(2001).....	367, 481	.....	401
spatial planning(first policy		Steenbergen	9, 639	Studio PRO	652
document).....	237	Steenbergen(1995)	639	studios.....	267
spatial planning<->water		steering	399	study proposal.....	646
management.....	237	<i>stellaria media</i>	389	stuwen	204
spatial plans(water management)		Stelling van Amsterdam ...	206, 420	stuwwal.....	496
.....	241	steppe grasslands	400	Stuyvesant, P	475
spatial policy.....	418	stereoscopic vision	458	Subatlanticum	60
spatial use	501	Stevens method	202	Sub-Boreal	59, 60
spatialisation function.....	475	Sticht.Wetensch.Atlas_v.Nederland		<i>subsidence expected until 2050</i> 211	
specialisation(regional).....	475, 477	(1985).....	55	subsidence(west of the	
specialised spaces.....	470	Sticht.Wetensch.Atlas_v.Nederland		Netherlands)	211
specialising.....	445	(1987)	484	suburbs.....	425
specialist species	485	stinging nettle	66	succession	377, 382, 440
specialists.....	388, 509	stocks(energy).....	33	succession of visual effects	73
specialization.....	367	stollingsgesteente.....	335	succession series.....	441
species	365	stop distance	285	succession(artificial)	78
species suppressed by other		stops	277	succession(interrupted)	437
species.....	77	storage		<i>sulphate</i>	556, 589
species supressing other species	74	capacity(electricity(conversion))		.....	562
species(choive).....	94	.....	34	sulphates.....	589
species(determined beforehand) 73		storage(concentration)	18	sulphur dioxide.....	553, 554, 555
species(extinction)	23	storeys	519	sulphuric acid	553, 555
species(extinction)	31	storm	107	summer temperatures.....	50, 51
species(new(evolution)).....	352	storm systems	318	summer time	43
species(planting).....	73	straatgras	387	summer(flowering)	84
species(rare)	368	Strahler	189, 190	summertime	41, 42
species(threatened)	389, 430	straight and hard(design		sun.....	35, 166, 626, 627
species(urban presence)	407	tools(planting))	72	sun bows	39
species-specific environment ...	546	strandwal	497	sun(energy contribution(national))	
specific cross-section(channel) .	185	strange people.....	623	.....	31
specific ecological groups.....	387	strata	316	sunheight.....	40, 42, 43, 44
specimens(marginal)	366	strategies	550	sunlight.....	35
speed(design)	479	strategies for survival	389, 391	sunlight(foliage).....	81
speed-specialised lines	474	stratification	561	sunrise.....	37, 38, 43, 46
speenkruid.....	64	stratosphere.....	559	sunset.....	37, 38, 43, 46
sphagno-alnion.	378	strauszbridge	260	superposition	251
spherical m2.....	49	stream	247, 496	supply channels	191
spherical radius.....	49	stream valley	496	support base	539
spiked water-milfoil	61	streamlands	639	supposition(tacit)	658
spindle.....	84	streekdorp.....	497	suppression(species)	77
SPKD.....	215	street 162, 247, 249, 262, 263, 623,		surface area(soil particle)	561
spoonbill	439	626		surface sources.....	560, 561
spoonbills	436	street furniture	649	surface temperatures.....	53
spores.....	355	street patterns.....	190	surface(light)	49

KEY WORDS BOUNDARIES OF IMAGINATION

tree size	89	UN 1992	570	valley forms	322
tree size(price ratio)	89	unbuilt/floor	518	valuation chart	443
Tree Structure Plan Amsterdam	88	underground	249	valuation charts(suppositions)	444
tree trunk(protected)	87	underground distribution centres		valuation maps	443
tree wall	92		299	value of natural areas	494
tree(asymmetrical crown)	99	underground infrastructure	308	value(experiential, practical,	
tree(crown raising heights)	99	underground installation	288	functional, future, survival)	634
tree(crown raising)	99	underground material storage	299	value(shape, structure, function)	
tree(planting distance)	96, 97	underpass	259		634
tree(size classes)	88	under-reamed living platforms	340	value(term(short, medium, long))	
trees	67, 623	unhardened urban areas	343		634
trees (oxygen)	87	uniformitarianism	315	values(incomparable)	645
trees planted(period)	89	uniformity(planting)	69	values(partial, surplus)	443
trees(climatic conditions)	67	unions	383, 392	valuing an ecosystem	439
trees(closed screen, wall)	96	unions(synecological)	383	valuing(flora, fauna, scale)	428
trees(minimum distances)	89	unique	429	valuing(rarity, replaceability)	439
trees(planting distances)	89	uniqueness	428	valves	402
trees(row)	97	uniqueness'	366	vandalism	89
trees(rows)	89	uniqueness(10 000km, 1000km,		vans	263
trees(transplanted)	89	100km)	428	vans of police	263
trees(water)	85	unit	429	vapour saturation	166
trekvaart	206	United States of The Netherlands		variable(categorisation)	400
trench	247, 249		475	variation	398, 664
trenches	221, 225, 247, 258	Universiteit van Utrecht(1987)	56	variation(planting(horizontal,	
trenches(distance)	228	University of Nijmegen	395	vertical))	68
trendline	529	University of Utrecht (1987)	58	variation(wanted(character, scale))	
trias economica'	635	unpredictability	442		428
trias politica	635	upright posture	458	variety(risc-cover for life)	666
trias urbanica	476, 635	upright(design tools(planting))	72	vascular disease	466
Triassic	316	uranium(environmental costs)	30	vascular plants	355
trichloroethylene	589, 591	urban areas(groundwater level)	223	vault(road(trees))	95
trichloro-phenol	555	urban canal	249	Vedel(1974)	57, 58
triglyphs	630	urban centre	418	Veerse Gat	218
trodden land	452	urban crowd pullers	518	Veerse Meer	210
trolley	259	urban design(health objectives)	426	vegetation area(Middle European,	
Tromba	250	urban design(hygiene)	405	West European)	373
tropical rain forest	458	urban details(wind)	111	vegetation(Europe(map))	436
tropics	35	urban differentiation(administration,		vehicles	263
troposphere	559	culture, economy)	635	vehicles/24 hour intensity	272
trough arch bridge	259, 260	urban environment	526	vehicles/hour intensity	272
truncation orders	189	urban functions	627	veldspaat	336
truncing river systems	188	urban growth	422	velocity	12, 264
trussed arch	259	urban highway	249	velocity profile	130
tube(sound)	155	urban highways	272	velocity(wind(potential))	112
tubifex	432	urban intensity	518	velocity(wind(probability))	115
tufted duck	436	urban island	266, 267, 269, 510,	velocity(wind)	109
tufted ducks	436	520		Veluwe	332, 358, 437, 449
tuiverankering	259	urban island density30m	520	Veluwe(precipitation)	168
tulip	83	urban landscapes	642	Veluwe-Arnhem-Nijmegen	638
Tummers(1997)	417, 503	urban outskirts	418	Venice	518, 647, 653
Tummers, L.	341	urban sprawl	18, 370, 408	Venn diagram	659
tunnel	261	urban units	392	ventilation losses(wind)	118
tunnels	287, 296	urbanisation	466	ventilation(wind velocity)	110
tunnels for rail transport	297	urbanisation alternatives(use of		Vera(1997)	436
turbine principle	277	time)	468	Vera, 1997	400
turn distance	271	urbanisation(awareness of problems)		Verberk(1987)	565
turning circle	263	use and management of soils	324	Verheijen	354
Twente	494, 496	use of time	468	Vermeulen and Jong(1985)	117
twin phenomena	395	use(intensity)	365	Vermeulen(1983)	113, 134
<i>twinphenomenon</i>	394	use(spatial)	501	Vermeulen(1985)	110
two-dimensional pollution models		U-shape	268	Vermeulen(1986)	110, 130, 134
	561	utility companies	534	vertebrates	353, 433
type	637	<i>Utrecht</i>	223, 280, 476, 497, 528	VER-thema's	573
type(collage)	637	Utrechtse Heuvelrug	332	vertical relief in the façade	651
typology	637, 653	Uytenhaak, R.H.M. (2005)	521	vertical variation(planting)	68
typology(nature)	444	V&W	437	veto chart	444
tyria jacobaeae	388	V&W (2000)	236	viaduct	259, 260, 401
Tzonis(1989)	630	V&W(1998)	423, 575	vibration	154
Udo de Haes	546	V&W(2000)	423, 424, 575	vibration time	154
Uiterwaarden Maas	210	V&W, 1998	236	viburnum	84
Uiterwaarden Rijn	210	V&W, 2000	236	Vienna Congress 1815	206
uitkragende zijoverspanning	259	vacant spaces	649	Villa d'Este	348
ulmion	378	vaccinio-quercion	378	Villa d'Este at Tivoli	348
ultrasonic	154	vacuum	106	Villa d'Este in Tivoli	348
ultra-violet rays	556	vakwerkboog	259	Villa Rotonda	629, 630
ultraviolet sunlight	107	valbrug	261	village	369, 418, 510, 623, 626

KEY WORDS BOUNDARIES OF IMAGINATION

village forms	486	wastewater purification	294	waterparagraph	241
village road	249	watch	626	waterschappen	234
villas	488	watch, learn	627	watersportclub	538
VINEX districts(traffic calculation)	472	water	61, 165, 649	water-table classes	329, 578
vinyl chloride	554	water (deep, shallow, bank, swamp, bottom, salt, brackish, fresh, current, stagnating)	210	watertoets	241
viscose layer	129	water as ally	207	watertoets(contents)	241
visibility	625, 626, 627	water as enemy	207	watertoets(regional elaborations)	242
Visscher(1972)	496, 497	water boards	533	waterway	247, 249
Visser(1986)	138, 140, 142, 143	water collection	497	waterways(urban)	454
Visser(1987)	148	water corridors	205	waterzuring	388
vista's	639	water defence systems	205	watt	291
Vlaardingen	342	water dock	388	watt*hour	13
Vlissingen	218	water flea	434	watt*jaar/jaar	12
vlotbrug	261	water in the Netherlands(kinds)	210	wave length	155
VNG	569	water infrastructure facilities(multi functional)	236	wavy hair-grass	436
VOC	493	water level management	437	wavy hair-grass(pleistocene)	374
VOC vessels	220	water level regulators	230	ways(density)	190
VOCs	576	water levels(history)	222	ways(district)	190
Vogel(1970)	54	water management tasks in lowlands	234	wear and tear	82
vogelmuur	62, 389, 390	water management	241	weather	316, 559
Vogler(1957)	424	aspects(watertoets)	241	weather pattern	559
voice	156	water management measures	210	weather patterns	317
voids	519, 654	water management of major waterways	206	weather types	560
volatile organic compounds	576	water management policy(half time)	205	weathering	320
volcanoes	316	water management tasks	233	weathering forces	325
Volkerakdam	218	water management(history)	205	wedges	402
Volksgezondheid en Milieuhygiene(1981)	161	water management(institutional aspect)	210	Weeda(1985)	389
volt	291	water management(integrated)	236	Weeda(2000)	427
Voorburg - Leidschendam	123	water management(integrated, sectors)	236	weegbree	400
Voorden(1979)	40	water management<->spatial planning	237	weekly rhythm	468
Voorden(1990)	152	water mint	65	weeping ash(treures)	98
Vos(1990)	66, 455	water on the Earth	165	weeping willow	48
Vos(1993)	407, 664	water pipes	293	weeping willow(treurwilg)	98
Vries(1962)	491	water pollution	561	wegdorp	497
Vries(1981)	475	water production	534	Weichsel	57
vroegeling	62	water retainability	344	Weichselian	358
VR0M(1989)	568, 570	water storage reservoirs	293	Weilbull probability distribution	114
VR0M(1998)	477	water strategies(care, store, drain)	236	Weir of Driel regulating Dutch water distribution	208
VR0M(2000)	418, 575	water supply	234	weirs	204, 231, 253
VR0M(2001)	419, 423, 575	water surface(claims in zoning plans)	242	Weirs directing water northwards and southwards	208
VR0M(2001, 2002)	478	water table(planting)	86	weirs in the Lower Rhine/Lek	207
VR0M, 2001	236	water treatment plants	294	Wely(1993)	454
VR0M/LNV(1987)	566	water(ecological groups)	386	Western blocks	46
vulcanoes	213	water(fishing, drinking, swimming)	569	Westerschelde	218
vulnerability charts	566	water's edge	642	West-Friesland	497
W 13		water's edge villages	488	Westhoff	391, 395
Wa	12, 13	Waterboard Delfland	242	Westhoff(1969)	374, 392
waaiertuibrug	259, 260	Waterboard Rijnland	242	Westhoff(1970)	548
Waal	197, 208, 209	watercourse	247, 249	Westhoff(1975)	383
wad	122	watercourse(hedges)	101, 103	Westhoff, et al., 1975	395, 396
Wadden area	428	watercycle(solar power)	22	Westhoffs synecology	396
Wadden Sea	219, 220	waterlevel	201	Westland	219
Waddeneilanden	220	waterlevels	424	Westra(1980)	115
Waddenzee	60, 209, 210, 217	waterlogging control and drainage of reclaimed land	205	Wet Bodembescherming	576
wagen	259	Waterloo	206	wet connections	247, 248
Wageningen	391	Waterman, 1992	219	wet cross section	201
wake area	152	watermanagement	423	Wet op de Luchtverontreiniging	590
walk	627	watermanagement policy	236	wet wood	497
walk	623, 626	Watermanagement Policy	423	wetand	61
walking	263, 623	watermanagement(areas)	234	weteringen	225
walking distance	274	watermanagement(global warming)	236	wetland(ecological groups)	386
walking route	249	watermunt	65	wetness	626, 627
wall	101			Wh	13
wall layer	129			wheels	402
wall vegetations	386			whirls	152
wall(design tools(planting))	71			white willow(schietwilg)	98
wall(trees)	96			whitebeam	84, 376
walled-in balconies	649			WHO	426
walled-in zone	633			wholesalers	544
washing(soil contamination)	589			wide-angle lens	629
waste disposal	324			wiel	497
wastewater	303			Wieringa(1983)	112
wastewater discharge system	299			Wieringen	220
wastewater production	306				

KEY WORDS BOUNDARIES OF IMAGINATION

Wieringermeer	220	wind(railways).....	126	Wright effect.....	649
<i>Wieringermeer polder</i>	228	wind(shrubs).....	153	Ws	13
Wieringerwerf	220	wind(solar power).....	22	Würm.....	57, 437
wijk.....	498	wind(temperature).....	138	WWII.....	220
wild honeysuckle.....	65	wind(trees).....	146, 150	xylene	591
wild parsnip	361	wind(velocity(average(hour))) ..	112	yacht harbour	538
wilde kamperfoelie.....	65	wind(velocity(average(year))) ..	112	yard.....	623, 626
Wilderbaan.....	488, 489	wind(velocity(frequencies)).....	115	year average potential wind velocity	
<i>wilderness</i>	400	wind(velocity).....	109	.....	112
wilg	376	wind(wall(permeable)).....	153	yearly rhythm.....	468
wilgenroosje	389, 390	Wind-borne sand dunes	496	yellow algae	432
wilgeroosje	63	<i>windmills(row)</i>	227	yellow corydalis.....	386
Willem I.....	492	windmills(rows).....	226	yellow flag.....	61
Willem II.....	492	window side	633	yellow iris	61
Willem III.....	475, 492	window(design tools(planting)) ..	72	yellow water-lily.....	61
Willemstad.....	205	window-frames	656	yew	83
Wilerich.....	488	windows/doors.....	627	youth and group accommodations	
Willerode	488, 489	windtunnel experiment(roughness		.....	538
willow	83, 376	island).....	131	Zaanstad	527
willow and poplar forests	378	windvelocity(height).....	130	zandfractie.....	326
willow(coastal).....	84	winning(energy).....	33	Zandkreekdam	218
willow(wilg)	98	winter (flowering).....	84	Zanen(2000).....	436
Wils.....	652	winter temperatures.....	50, 51	zebra mussel.....	434
wind	154	wipperchicken	623	zebra mussels.....	436
wind direction	112	with multiple-celled life forms ..	353	Zeeland	327, 438
wind effects(water system).....	210	Wittgenstein	659	Zeeland waters	438
wind force	106	Wittgenstein(1919).....	659	Zeeuws Vlaanderen	209
wind loads	109	Wittgenstein(1953).....	659	zeil- en surfschool	538
wind potential	29	WLO.....	442	Zevenkamp	307
wind shelter(local).....	128	Wolman.....	188, 190	zijoverspanning	259
wind stations	112	<i>Wolocas</i>	472	Zijpp(2000).....	471, 479
wind statistics	111	Wolters-Noordhof(1981).....	495	zinc	589
wind turbine(power(wind velocity))		Wolters-Noordhof(1996).....	479	Zodiac.....	38
.....	110	Wolters-Noordhof(2001).....	167, 168	Zoest.....	444
wind turbine(power)	115	Wolters-Noordhof(2001))	50, 51	Zoest(1998).....	365
wind turbine(profit)	115	<i>Wolters-Noordhof, 2001</i>	169	Zoest(1998).....	352
wind turbines(eficiency).....	28	wood	497	Zoest(2001).....	442
wind turbines(energy profit).....	109	wood anenome	64	Zoetermeer.....	123, 364, 405, 407,
wind turbines(energy profit(rule of		wood/forest	64	452, 454, 527, 570, 664	
thumb))	116	wooded morass	437	Zoetermeer(1969).....	255
wind velocities(distribution)	112	wooden pile heads	338	Zoetermeer(nature policy)	453
wind velocity.....	106	wooden piles.....	303	Zoetermeer(rarity policy)	430
wind velocity(average(calculation))		woodland planting	74, 83	Zoetermeer(wild plant species) ..	361
.....	113	woodland planting schemes.....	73	zomereik.....	65
wind velocity(height,lateral)	129	woodland planting(>6m wide).....	79	<i>zoning</i>	401
wind(allotment directions).....	144	woodland profile	74	Zonneveld(1981).....	188, 189, 190,
wind(central green)	141	woodland(open spaces).....	74	195, 196	
wind(direction(tree shape)).....	83	woodrush-beech forest.....	484	zoo.....	538
wind(district road trees)	147	woods	436	Zuiderzee	60, 216
wind(district road).....	146	Work Group for Urban		Zuiderzee area	59
wind(dwelling density).....	151	Ecology(WLO).....	442	Zuiderzee works.....	216
wind(edge green).....	141	work groups(bird, butterfly, plant,		Zuiderzee(flooding 1916).....	216
wind(edge of town)	126	toadstool, reptile, mammal, bat)		Zuiderzeewerken	216, 217
wind(energy contribution(national))		.....	440	zuyder sea herring.....	431
.....	31	World commission environment and		Zwart(2000).....	442
wind(energy harversting).....	28	development(1990).....	666	zwarte els	64
wind(forests).....	126	World commission environment and		zwarte populier.....	376
wind(green areas).....	126	development(1990).....	570	Zweckbegriff.....	368, 668
wind(high rise at the edge).....	141	World Health Organization.....	365	zweefbrug.....	259, 260
wind(highway)	126	World War I.....	205	zwevend brugdeel.....	259
wind(low rise at the edge).....	141	World War II.....	237	Zwin	218
wind(new urban area lose or		Worldbank.....	219	$\Delta C_p(10)$	142
adjacent).....	124, 125	world-wide rarity	430	$\Delta C_p(z)$	148
wind(open green area)	147	worms	432	Δi 130	
wind(permeable walls).....	153	Woud(1998).....	493	p 142	
wind(planting).....	93	wreath seaweed	432, 433		

Questions

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- 1 How does the SI system of units define energy and power?
 - 2 What is momentum?
 - 3 What is force?
 - 4 What is energy?
 - 5 What is power?
 - 6 In what units are energy and power expressed?
 - 7 What does peta mean?
 - 8 What is the energy content of 1 m³ natural gas (aeq)?
 - 9 What is the energy content of 1 litre petrol?
 - 10 Give three expressions for the power of one watt *during* a year.
 - 11 Give three examples for the power of one watt *during* a year.
 - 12 Express 1 kWh in J.
 - 13 Give three examples of a power of 100W in every day life.
 - 14 Why is electric energy more expensive than the same energy from gas?
 - 15 What is the relation between entropy and efficiency?
 - 16 Which conversions are combined in an electric power station and which efficiencies are involved?
 - 17 How long could we maintain current energy use by fossile fuels?
 - 18 Name 3 drawbacks of the use of uranium for energy supply, explain every drawback with three elements.
 - 19 Where hides the danger of misuse of nuclear energy using a fast breeder reactor?
 - 20 What is nuclear fusion. What are the dangers of nuclear fusion?
 - 21 Which proportion of Dutch energy use is electric?
 - 22 What is the best alternative for future energy production?
 - 23 What is the largest flow of commercial energy through The Netherlands?
 - 24 For which applications is energy storage of decisive importance?
 - 25 Which kind of energy storage is most efficient. Why don't we use it?
 - 26 When and at what time a building of 50m casts a shadow of 100m in North-Eastern direction in The Netherlands?
 - 27 What is a candela?
 - 28 What is a lumen?
 - 29 What is a lux?
 - 30 What is the name of the age 75 000 B.C?
 - 31 Where could you find daisies (madeliefjes) and from which month do they flower in the Netherlands?
 - 32 Which plants in The Netherlands start to flower in February as pioneering plants, in grassland and in forests?
 - 33 Why are flowering periods important for nature management? What types of biotope have an early flowering period and what types have a late one? What types of biotope have a limited flowering period late in the summer? To what extent can the daily variations in growing circumstances play a role in nature management?
 - 34 What is a key characteristic of plants in a built environment?
 - 35 What is 'screening' effect of plants?
 - 36 What is 'structure' in plantation?
 - 37 What can be the effect in time of planting schemes?
 - 38 What are restrictions in the choice of plant material?
 - 39 What is the primary factor that influences the planting of trees next to buildings?
 - 40 What are the climatic conditions for use of plantation?
 - 41 Which kinds of plantation are coloured or flowering in spring?
 - 42 Which kinds of plantation are coloured or flowering in summer?
 - 43 Which kinds of plantation are coloured or flowering in autumn?
 - 44 Which kinds of plantation are coloured or flowering in winter?
 - 45 Which are the physical conditions for use of plantation apart from the climatic ones?