



Policy Document Analysis

Stern Review: The Economics of Climate Change

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Forward

Thank you for considering our tools. We believe that we have significant new products and technologies that will change the way we create and review documents. It is no secret that the computer and the Internet revolution have provided us with so much data that we are unable to effectively consume this data. Our products and technology address this serious issue and we are working so that they will become as common as word processing.

This document is a sample analysis of the Stern Review on Global Warming.

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1.0 Introduction

In late 2006 we used the Plan Language Analysis (PLA) Tool to analyze a Global Warming document from the European union: "GREEN PAPER A European Strategy for Sustainable, Competitive and Secure Energy". Our findings on the GREEN PAPER were published on the PLA web portal <http://www.cassbeth.com/pla>.

From that experience an effort was initiated to try to understand how individuals, organizations, governments and international entities accomplish things. The following new services for a Policy Document Analysis surfaced: Broad Approaches, Institutions, Organizational Tool, and Nation State Tools.

Early in 2007 we were introduced to the Stern Review: The Economics of Climate Change. We subjected the Stern Review to our Generic Document Analysis (GDA) tool. This effort took approximately 3 days to complete, including the writing of this report and updating the web portals.

2.0 Methodology

The Stern Review was analyzed as a single concatenated document. It was converted to text format. The Parse Text option was selected and all the display areas were disabled except for Accessed Patterns and Metrics. The follow steps were used to prepare for the analysis.

1. Converted the .pdf files to .txt documents. This was accomplished by:
 - opening each document in a PDF reader
 - picking the Text Select Tool button at the top of the menu area
 - under view selecting continuous
 - going into the body of the document
 - right clicking with the mouse and select copy
 - pasting into microsoft word
 - saving microsoft word in .txt format
2. Subjected only the executive summaries to the "word themes" service. This resulted in the follow new services: International Tools, Social Warnings, Urgency, and Subversion Tactics. The last 2 services are still in development.
3. Merged the text documents into a single large file. This was accomplished with multiple opens and pastes into a single text document.
4. Examined the other templates: Constitutions, Legislation, Plain Language, and Screenplays. This resulted in the following new services: National Roles, International Roles, Special Interests, Emotions, and Overall Reaction.
5. Made the broad statement that the other templates may provide additional insight into the document, but did not perform the analysis.

The services were initially captured in a Microsoft Word using a very simple template where the services and rules are level 1 and 2 heading settings while the patterns are norm style format. Services and rules that were modifications from other templates were moved directly into the

new template as HTML text. This reused content was moved into the Microsoft Word document after the template was populated.

Bouncing between the Microsoft document view and the GDA template authoring view flushed out the inconsistencies and errors. When no more changes were detected the analysis was started.

The template evolved slightly once the analysis started. The changes were associated with COLOR settings and wild cards at the end of certain search pattern. There was one change to the pattern to look for "options and approaches" The pattern was broadened to show various options and approaches.

The analysis entailed subjecting the full text version of the Stern Review to each service and saving the results into Previous Analysis. The following services were used to analyze the Stern Review: Broad Approaches s5s, Institutions s6s, Societal Approaches s7s, Organizational Tools s8s, Nation State Tools s9s, International Tools s10s, Social Warnings s11s, National Roles s12s, International Roles s13s, Special Interests s14s, Emotions s15s, and Overall Reaction s16s.

The accessed patterns were visually scanned. This section includes an area for patterns not found. This area provides as much if not more information than the actual mined patterns. Next the Metrics were visually examined.

The next level of analysis where the findings of each service are further refined was not performed. This is an ad hoc activity and usually yields more insight, however there is much to say about the document at this level of analysis.

3.0 Findings

This is a very large body of work, and not because it has a large page count. It is the opposite of the GREEN PAPER. When we first analyzed the GREEN PAPER from the EU we were disappointed to find that it did not have much meaningful actionable content. It pointed to vague references of markets, international efforts, and the people. Looking back on that result within the context of the Stern Review, it is clear that the GREEN PAPER was a cry out for help. It appears as though the Stern Review attempts to address that cry for help to some extent.

The Stern Review is filled with strong words suggesting urgency. It is extremely broad in its treatment and attempts to offer some alternatives. It does appear that it was created in a time when the case for global warming was still a topic of discussion and so it makes the point of addressing that issue. While this report was being prepared institutions were being triggered and it is highly likely that the creation of the report resulted in information flow via external channels that global warming is real and must be addressed. So at the time of release much of its themes and threads dedicated towards making the case for Global Warming are not applicable.

Even though the Stern Review offers some alternatives and options; it could use more work in that area. There is also minimal emphasis in the words relating to the technical approaches to the problem. Simulation, game theory, and modeling are part of the report, but other technical approaches to problem solving are not clearly visible. It is obvious that this is the next step.

The Stern Review has strong references to policy and appears to look at the Global Warming problem holistically as evidenced by the sheer spread of hits of different topics addressed and surfaced with the mining. This may be why the report was split into different parts. So it would seem that future document analysis should be considered the parts in a stand-alone fashion and drill down into each service for ad hoc findings encouraged.

4.0 Data

4.1 Broad Approaches s5s

<u>Markets</u> <u>People</u>	<u>Technology</u> <u>International</u>	<u>Education</u> <u>Engineering</u>	<u>Science</u> <u>Systems</u>	<u>Government</u> <u>Alternatives</u>
Accessed Patterns Found				
458 technologies	380 market	366 international	288 people	287 technology
248 markets	235 national	231 analysis	137 governments	110 systems
93 government	92 technological	84 science	80 technical	61 community
54 competitiveness	53 Technology	48 Government	46 competition	46 Science
42 governmental	42 National	41 communities	36 Governments	33 analyses
25 internationally	25 Nations	23 scientists	22 Market	22 techniques
20 techchange	18 Analysis	17 Sciences	16 governance	16 nations
14 operation	14 of alternative	13 Scientific	13 Technical	12 People
11 nation	11 operations	11 analytical	10 technique	10 an alternative
9 mitigation options	9 Technologies	8 engineering	8 analysed	7 Community
7 System	7 of options	7 engineers	7 these approaches	6 an option
6 Education	6 the option	6 sectoral approaches	6 adaptation options	6 policy options
6 compete	6 based approaches	5 Systems	5 analyse	5 systematically
5 systematic	5 and options	5 the options	4 policy approaches	4 carbon alternatives
4 Competition	4 voluntary approaches	4 new approaches	3 different approaches	3 nationally
3 One option	3 ethical approaches	3 educated	3 competitors	3 modelling approaches
3 educational	3 techchangepartnership	3 effective approaches	3 Competitiveness	3 Sectoral approaches
2 many options	2 Scientists	2 the approaches	2 were approache	2 the alternatives
2 educating	2 fewer options	2 support alternative	2 in alternative	2 educate
2 Governmental	2 carbon options	2 energy options	2 Alternative approaches	2 The alternative
2 fuel alternative	2 efficient alternatives	2 competes	2 techchangeutures	2 sharing approaches
2 marketing	2 available options	2 fuel option	2 other approaches	2 Regulatory approaches
1 planning approaches	1 market49	1 systemic	1 as alternatives	1 main alternative
1 Communities	1 some approaches	1 cost options	1 only options	1 insurance options
1 or approaches	1 easier options	1 scale approaches	1 lowcost alternatives	1 Integrated approaches
1 design options	1 technologies21	1 communities14	1 technologies18	1 related options
1 over alternatives	1 new option	1 marketbased	1 developing alternatives	1 dictating approaches
1 old alternative	1 deployment57	1 dominant alternatives	1 technologies2	1 free option
1 introducing alternative	1 similar approaches	1 which option	1 likely option	1 This Alternative
1 pilot approaches	1 technology39	1 scientifically	1 fuel options	1 Competitive
1 These alternatives	1 stage approaches	1 viable alternatives	1 and approaches	1 monetary approaches

1 less alternatives	1 nationalisation	1 encouraging alternative	1 competent	1 their approaches	1 Finding alternative
1 such options	1 philosophical approaches	1 emission alternative	1 49 Alternative	1 technicians	1 technologies58
1 lowcarbon options	1 generation options	1 integrate approaches	1 technologies60	1 portfolio options	1 towards alternatives
1 Methodological Approaches	1 attractive option	1 practical option	1 lowcost approaches	1 an Alternative	1 little option
1 governing	1 regulatory options	1 governments27	1 benefit approaches	1 Technology	1 European approaches
1 competitor12	1 analysts	1 on alternative	1 techangestrategy	1 technology5	1 competitor
1 those options	1 technologies42	1 marketsector	1 led approaches	1 Engineering	1 equitable approaches
1 using alternative	1 innovation Alternative	1 be approache	1 technology25	1 nationalised	1 radical options
1 Educating	1 system28	1 where alternative	1 weighting approaches	1 real options	1 This option
1 Some alternatives	1 competence	1 economics approaches	1 easy option	1 adopted approaches	1 27 Alternative
1 marketable	1 and alternative	1 analytic	1 lowemission options	1 adaptation option	1 The alternatives
1 cost approaches	1 other alternative	1 various approaches	1 principal options	1 operationalising	1 fuel alternatives
1 different options	1 term option	1 The options	1 engineer	1 Governor	1 term alternatives
1 Other approaches	1 whether alternative	1 depleting alternatives	1 Internationally	1 promising options	1 science_and_
1 coordinated approaches	1 for alternatives	1 nationwide	1 of Alternatives	1 trading approaches	1 technik
1 better alternative	1 only option	1 marketswork	1 overlapping approaches	1 uniform approaches	1 Each option
1 Scientist	1 govern	1 investment options	1 educates	1 identifying alternatives	1 one option
1 technologybased	1 these options	1 standard approaches	1 parallel approaches	1 technology_for_sust ai	1 important option
1 regrets options	1 Techniques	1 scientist	1 technologies36	1 develop approaches	1 proposed approaches
1 reconsider approaches	1 differing approaches	1 assess options	1 new options	1 technologies54	1 viable option
1 tradable approaches	1 viable alternative	1 both approaches	1 modern approaches	1 teChange	1 technology8
1 These approaches	1 various alternative	1 quantifiable alternative	1 economic option	1 policy option	

Accessed Patterns Not Found
no data

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Alternatives s5s		312		2.35			22.33		
Education s5s		61		0.45	50.83		4.36		
Engineering s5s		17		0.12	14.16		1.21		
Government s5s		681		5.13			48.74		
International s5s		680		5.12			48.67		
Markets s5s		803		6.05			57.48		
People s5s		404		3.04			28.91		
Science s5s		251		1.89			17.96		
Systems s5s		606		4.56			43.37		
Technology s5s		1086		8.18			77.73		

Rules Total 10 Rules Triggered 10 Rules Not Triggered 0 Percent of Rules Triggered 100%

4.2 Institutions s6s

Academia Government Industry Labs Think Tanks
NGO Non Profits Popular Media Technical Media Associations

Accessed Patterns Found

423 king	273 government	265 markets	173 business	162 research	132 R&D
123 industrial	118 industry	116 University	96 Research	87 companies	86 Government
57 industries	52 Agency	39 Department	23 Business	19 labour	16 Markets
12 labels	12 agencies	12 Industry	10 Union	9 Industrial	6 labelling
5 universities	5 industrialised	4 College	4 the Association	3 ngo	3 Companies
3 Economic Association	3 Congress	2 Parliament	2 Labour	2 department	2 university
2 Laboratoire	1 laboratories	1 labs	1 agency	1 Farmers Association	1 38 Association
1 52 Association	1 Universities	1 Agencies	1 laboratory	1 parliament	1 lab
1 28 Association	1 labeling	1 academia	1 labelled	1 industrialising	1 and Association
1 NGO	1 Agence	1 Agency22	1 36 Association	1 Trading Association	1 label
1 9 Association	1 industrialisation	1 Laboratory	1 labor	1 Italian Association	1 peasant association

Accessed Patterns Not Found

cabinet	senate	queen	monarchy	FFRDC	think tank\w*
private foundation	open source	non.profit\w*	not.for.profit	newspapers?	television
radio	internet	books?	conference proceedings	technical journals	scientific journals
peer reviewed article	guild	club			

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
<u>Academia s6s</u>		128		0.96			9.16		
<u>Associations s6s</u>		27		0.2	22.5		1.93		
<u>Government s6s</u>		850		6.4			60.84		
<u>Industry s6s</u>		841		6.33			60.2		
<u>Labs s6s</u>		423		3.18			30.27		
<u>NGO s6s</u>		4		0.03	3.33	40	0.28		
<u>Non Profits s6s</u>									
<u>Popular Media s6s</u>		23		0.17	19.16		1.64		
<u>Technical Media s6s</u>									
<u>Think Tanks s6s</u>									

Rules Total 10 Rules Triggered 7 Rules Not Triggered 3 Percent of Rules Triggered 70%

4.3 Societal Approaches s7s

Peaceful Sacrifice Stressed Violent

Accessed Patterns Found

114 standards	36 responsibility	9 aspirations	8 Standards	6 freedom	4 unrest
3 Revolution	2 oversight	2 revolution	1 Liberty	1 Responsibility	1 violent clashes
1 violent conflict	1 commerce	1 liberty	1 Freedom		

Accessed Patterns Not Found

Activism	Grass roots	Sacrifice	Violent Revolution	Violent unrest
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Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
<u>Peaceful s7s</u>		168		1.26			12.02		
<u>Sacrifice s7s</u>		9		0.06	7.5	90	0.64		
<u>Stressed s7s</u>		9		0.06	7.5	90	0.64		
<u>Violent s7s</u>		2		0.01	1.66	20	0.14		

Rules Total 4 Rules Triggered 4 Rules Not Triggered 0 Percent of Rules Triggered 100%

4.4 Organizational Tools s8s

[Technical](#) [Process](#) [Management](#) [Gestalts](#) [Implementation](#)

Accessed Patterns Found

195 models	174 studies	167 model	135 incentives	118 encourage	114 approaches
114 standards	76 frameworks	71 modelling	64 promote	35 Panel	33 partnership
29 Modelling	28 alternatives	25 co-ordination	19 Studies	19 Partnership	17 Conference
13 Models	12 Committee	10 panel	10 simulation	10 Model	9 coordination
8 international agreement	8 consensus	8 Standards	7 deployment incentives	7 pilot schemes	7 motivated
7 game theory	6 Frameworks	6 modellers	6 modelled	6 Incentives	5 key issues
5 sectoral agreement	5 voluntary agreement	4 of agreement	4 experts	4 conference	4 Game theory
3 Prototype	3 requires agreement	3 motivation	3 The agreement	3 Approaches	3 multilateral agreement
2 Co-ordination	2 that agreement	2 securing agreement	2 immediate agreement	2 modeling	2 Alternatives
2 Modeling	2 general agreement	2 and agreement	2 Environmental Agreement	2 Pilot schemes	2 an agreement
1 committee	1 model4	1 International agreement	1 is agreement	1 model3	1 General Agreement
1 406 crop plan	1 TRIPs33 agreement	1 Implementing Agreement	1 EU agreement	1 130 different plan	1 India agreement
1 informal agreement	1 model16	1 Signed agreement	1 tacit agreement	1 Voluntary agreement	1 Systems Analysis
1 Finding agreement	1 led agreement	1 other agreement	1 Promote	1 1976 and plan	1 This agreement
1 without agreement	1 model12	1 change agreement	1 Key issues	1 Joa	1 require agreement
1 widespread agreement	1 permitting agreement	1 Rights agreement	1 yet agreement	1 formal agreement	1 future agreement
1 such agreement	1 key requirements	1 sharing agreement	1 existing agreement	1 Simulation	1 service agreement
1 for Agreement	1 regulatory agreement	1 reach agreement	1 motivate	1 motivational	1 the agreement
1 model5	1 early agreement	1 model2			

Accessed Patterns Not Found

	dynamic programming	Delphi method	linear programming		
Exploratory modeling	Baysian analysis	Tradeoff analysis	Tradeoff stud\w+	bayesian analysis	statistical analysis
probability analysis	Action items	To do list	Brain storm	Goal setting	Critical thinking
\w+ term goals	common goals	Partnership agreement	Letters of agreement	joint operating agreement	LOA
Tiger team	Focus group	Face.to.face.meeting	Structured group	Unstructured group	

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Gestalts s8s		83		0.62	69.16		5.94		
Implementation s8s		475		3.57			34		
Management s8s		133		1			9.52		
Process s8s		233		1.75			16.67		
Technical s8s		695		5.23			49.74		

Rules Total 5 Rules Triggerred 5 Rules Not Triggerred 0 Percent of Rules Triggerred 100%

4.5 Nation State Tools s9s

[Policy](#) [Legislation](#) [Regulation](#) [Deregulate](#) [Tax](#)
[Military](#) [Departments](#) [Resources](#) [Proactive](#) [Transparency](#)

Accessed Patterns Found

451 policy	238 tax	218 Policy	135 incentives	121 national Collective	119 co-operation
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105 pricing	104 regulation	82 trade	34 national Energy	31 national and	29 national collective
29 tackle	27 shared understanding	27 national community	25 co-ordination	20 tackling	20 transparency
18 national level	18 Trade	16 Regulation	13 national framework	13 national action	12 national frameworks
11 national emissions	10 national support	9 national governments	9 coordination	9 cooperation	9 national development
9 the Department	9 National Academy	8 national or	8 Tax	8 national programmes	7 national policies
7 national technology	7 Co-operation	7 national co	7 inform	6 national programme	6 national markets
6 Incentives	6 national response	5 national Financial	5 national agreements	5 US Department	5 national Rice
5 national Climate	5 legislation	5 national response	5 national Federation	5 national goals	5 equitable distribution
4 National Laboratory	4 national companies	4 national assistance	4 National Bureau	4 national funding	4 UK Department
4 national Development	4 national climate	4 national Conference	4 national Institute	4 national mechanisms	4 national Economics
4 national borders	4 national relations	4 national Forestry	4 national trade	4 Transparency	3 national commitments
3 national institutions	3 national limits	3 remove barriers	3 national law	3 National Adaptation	3 national competition
3 national partnerships	3 national arrangements	3 national understanding	3 national planning	3 National Research	3 mutual understanding
3 national investment	3 national competitiveness	3 national environmental	3 Environment Department	3 national negotiations	3 national Environmental
3 national flows	3 national agreement	3 national Affairs	3 national effort	3 national circumstances	3 national collaboration
3 national research	3 persuasion	3 national aviation	3 national Civil	3 national trading	3 national Agricultural
2 national communications	2 National Flood	2 national efficiency	2 national income	2 national Monetary	2 national dimension
2 national energy	2 Economics Department	2 national perspective	2 national differences	2 national industries	2 national capital
2 government department	2 national sectoral	2 national economic	2 national legal	2 national treaty	2 national public
2 National objective	2 national management	2 national assessments	2 national financial	2 national debate	2 persuade
2 national Commission	2 oversight	2 national objectives	2 national R	2 National Park	2 national resources
2 Review Department	2 national boundaries	2 national air	2 national transaction	2 Co-ordination	2 national economy
2 national issues	2 national Emissions	2 national priorities	2 national discussion	2 national private	2 national communication
2 national GDP	2 national efforts	2 educate	1 national Comparison	1 national targets	1 national shipping
1 national conglomerate	1 national policymaking	1 national cooperation	1 deregulate	1 Pricing	1 national lending
1 national regimes	1 national levels	1 national Corporations	1 national conditions	1 national currency	1 national company
1 national Plans	1 national exposure	1 national spillovers	1 national initiatives	1 national level4	1 National R
1 national cereal	1 motivate	1 national importance	1 national level31	1 national cuisine	1 national actions
1 national Maritime	1 national emission	1 national discretion	1 national objective	1 national hurricane	1 national Journal
1 national stakeholder	1 National initiatives	1 national Perspective	1 national Year	1 National Institute	1 national Studies
1 national organisations	1 national coverage	1 national circumstances43	1 National sur	1 national monitoring	1 National Allocation
1 national fora	1 National Oceanic	1 national reach	1 National Smallholder	1 national finance	1 national Partnership
1 national services	1 National	1 national process	1 national	1 national nature	1 national

	Renewable		deployment		leadership
1 national baselines	1 national behaviour	1 national government	1 national flow	1 National conflict	1 national security
1 national offset	1 national approach	1 national tourism	1 national publicprivate	1 national authorities	1 national flood
1 national blueprint	1 national plan	1 Military	1 national marine	1 national pilot	1 national Finance
1 national comparison	1 national inventory	1 National commitments	1 national floods	1 national shifts	1 national highways
1 national ad	1 national Soil	1 national river	1 html Department	1 national drug	1 national parks
1 national START	1 National Parks	1 national harmonisation	1 national capacity	1 national momentum	1 national workshop
1 national norms	1 national baseline	1 national transfers	1 pdf Department	1 national budget	1 national location
1 national registries	1 national Research	1 national heritage	1 national insurance	1 national prices	1 national Food
1 national currencies	1 national agreements7	1 national collaborative	1 National Audit	1 national debates	1 national Organisation
1 national approaches	1 Tackling	1 national costs	1 national aid	1 national stabilisation	1 Cooperation
1 national carbon	1 national review	1 national quotas	1 national recognition	1 national accounts	1 national aspects
1 national corporations20	1 national modelling	1 national risk	1 national 21	1 national Financing	1 national credits
1 Mutual understanding	1 national short	1 national compliance32	1 national exchange	1 National borders	1 national Workshop
1 national Labour	1 national model	1 National carbon	1 national negotiation	1 national patent	1 national market
1 national administrations	1 national forest	1 Research Department	1 National grids	1 12 Department	1 military
1 National planning	1 Guelph Department	1 national treaties	1 National Action	1 national herd	1 national disaster
1 national agricultural	1 national scale	1 national game	1 National Centre	1 national authority	1 national heatwave
1 National Aeronautics	1 national interest	1 National Meteorological	1 Nations Department	1 national context	1 National Enterprise
1 National investment	1 71 Department	1 national Network	1 national University		

Accessed Patterns Not Found

army airforce
navy intelligence The nations vw+ national responsibility

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Departments s9s		34		0.25	28.33		2.43		
Deregulate s9s		4		0.03	3.33	40	0.28		
Legislation s9s		5		0.03	4.16	50	0.35		
Military s9s		2		0.01	1.66	20	0.14		
Policy s9s		1119		8.43			80.1		
Proactive s9s		87		0.65	72.5		6.22		
Regulation s9s		120		0.9	100		8.58		
Resources s9s		804		6.05			57.55		
Tax s9s		246		1.85			17.6		
Transparency s9s		25		0.18	20.83		1.78		

Rules Total 10 Rules Triggered 10 Rules Not Triggered 0 Percent of Rules Triggered 100%

4.6 International Tools s10s

[Policy](#) [Resources](#) [Proactive](#)

Accessed Patterns Found

123 International Collective	43 international co	38 international co-operation	33 International Energy	29 tackle	28 United Nations
27 international	27 shared	25 international	20 tackling	14 UN	13 international

community	understanding	collective			framework
12 international trade	12 International co	11 international frameworks	8 international support	8 international action	7 international emissions
7 inform	6 international level	6 international response	6 treaties	5 equitable distribution	5 international technology
5 international response	5 International Rice	5 International Climate	5 International Federation	5 international and	5 International Financial
4 International Conference	4 International Economics	4 international flows	4 international programme	4 International collective	4 international funding
4 international relations	4 international climate	4 International support	4 international programmes	4 international markets	4 international agreements
4 international institutions	4 International Development	4 international co-ordination	4 International Institute	4 International Forestry	3 International Affairs
3 mutual understanding	3 international negotiations	3 International Agricultural	3 international coordination	3 international effort	3 international understanding
3 international mechanisms	3 international aviation	3 international competition	3 International trade	3 international trading	3 International Civil
3 international collaboration	3 international partnerships	3 International Environmental	3 international commitments	3 international coordination	2 persuade
2 international legal	2 international perspective	2 international economic	2 international transaction	2 international debate	2 treaty
2 international arrangements	2 International assistance	2 International Emissions	2 international public	2 international resources	2 International sectoral
2 international cooperation	2 international assistance	2 international assessments	2 international law	2 international policies	2 international development
2 international capital	2 international market	2 international management	2 international treaties	2 International Commission	2 international air
2 international goals	2 international environmental	2 international treaty	2 international research	2 international private	2 international resources
2 international dimension	2 international issues	2 educate	2 International Monetary	2 international agreement	1 international prices
1 international pilot	1 International Finance	1 international approach	1 international political	1 international priorities	1 international shipping
1 International Food	1 international exchange	1 international compliance ³²	1 international coverage	1 International arrangements	1 international transfers
1 International START	1 international organisations	1 International patent	1 international model	1 international malaria	1 international borders
1 international public/private	1 International Perspective	1 International R	1 International Labour	1 international offset	1 motivate
1 international debates	1 international lending	1 international harmonisation	1 International Journal	1 International Workshop	1 Tackling
1 International University	1 International efforts	1 Treaty	1 international behaviour	1 international financial	1 International financial
1 International funding	1 International review	1 international credits	1 international initiatives	1 International frameworks	1 international norms
1 International law	1 International Organisation	1 international recognition	1 international carbon	1 international tourism	1 International Year
1 international reach	1 International co-ordination	1 international negotiation	1 international cereal	1 international process	1 International policy
1 International energy	1 International mechanisms	1 international momentum	1 international spillovers	1 international investment	1 International cooperation
1 international cooperation	1 international Energy	1 International monitoring	1 International discussion	1 International Soil	1 international objective
1 International coordination	1 international marine	1 international drug	1 international energy	1 International companies	1 international regimes
1 International 21	1 international flow	1 international agreements ⁷	1 international nature	1 International co-operation	1 international insurance
1 International Maritime	1 international scale	1 International risk	1 international services	1 international blueprint	1 international location
1 international river	1 international efficiency	1 International finance	1 International development	1 international economy	1 International Financing
1 international	1 International	1 international	1 International	1 International	1 international

companies	Network	collaborative	technology	stakeholder	workshop
1 international modelling	1 International agreements	1 International and	1 international emission	1 international leadership	1 international taxes
1 international fora	1 international comparison	1 international discussion	1 International Comparison	1 International aspects	1 international policy
1 International Research	1 International Partnership	1 international framework17	1 International Co-operation	1 International ad	1 international stabilisation
1 international game	1 international context	1 International coordination	1 international exposure	1 International action	1 International networks
1 International Studies	1 international level4	1 Mutual understanding			

Accessed Patterns Not Found

Peace keeping International persuasion international responsibility

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Policy s10s		700		5.27			50.1		
Proactive s10s		87		0.65	72.5		6.22		
Resources s10s		16		0.12	13.33		1.14		

Rules Total 3 Rules Triggered 3 Rules Not Triggered 0 Percent of Rules Triggered 100%

4.7 Social Warnings s11s

[General](#) [Human](#) [Anger](#) [Environment](#) [Health](#) [Economic](#) [Earth](#)

Accessed Patterns Found

346 war	192 forest	171 flood	162 sea	138 damage	133 atmosphere
131 land	119 weather	106 air	105 damages	89 drought	69 anger
54 War	46 ocean	44 dangerous	42 hurricane	38 damaging	34 disease
27 suffer	26 Forest	21 shortages	17 hunger	16 Air	13 threaten
13 threat	12 Drought	12 disruption	12 mountain	11 typhoon	11 Land
10 Sea	10 dangers	10 Ocean	9 stream	9 Hurricane	9 threats
8 threatened	8 suffering	8 lakes	7 streams	7 threatens	6 Stream
6 suffered	6 danger	6 damaged	4 unemployment	4 threatening	4 Flood
4 unrest	3 earthquake	3 suffers	3 Damage	3 lake	3 Dangerous
3 Revolution	2 revolution	2 Disease	2 Atmosphere	1 Weather	1 ice cap
1 Hunger	1 Mountain	1 mountains	1 damage1	1 disruptions	1 Lakes
1 Famine	1 famine				

Accessed Patterns Not Found

Crop failure Storm damage Crop failure Food shortages
Water shortages Pestilence Plague Underemployment

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Anger s11s		473		3.56			33.85		
Earth s11s		932		7.02			66.71		
Economic s11s		4		0.03	3.33	40	0.28		
Environment s11s		283		2.13			20.25		
General s11s		413		3.11			29.56		
Health s11s		36		0.27	30		2.57		
Human s11s		76		0.57	63.33		5.44		

Rules Total 7 Rules Triggered 7 Rules Not Triggered 0 Percent of Rules Triggered 100%

4.8 National Roles s12s

[Religion](#) [Defense](#) [Money](#) [Wealth](#) [Education](#) [Agriculture](#) [Health](#) [State](#) [People](#) [Labor](#)

Accessed Patterns Found

331 region	288 people	173 business	132 land	128 agriculture	127 health
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120 tax	72 food	55 farm	46 education	44 property	41 labor
39 child	35 state	34 disease	28 burden	28 burden	27 Agriculture
27 money	26 Region	23 patent	23 Business	23 labour	21 Food
17 hunger	17 Health	15 city	14 children	12 People	11 Land
11 ownership	8 Labor	7 State	6 Property	6 Education	5 cash
5 currency	5 province	4 Labour	4 City	4 farms	4 Farm
3 Patent	3 Defense	3 Tax	3 Child	3 citizens	2 Church
2 war	2 nurse	2 town	2 medicine	2 village	2 War
2 teacher	2 Disease	2 Town	2 Children	1 church	1 Hunger
1 army	1 clinic	1 Burden	1 Province	1 Burden	1 Medicine
1 owner	1 doctors	1 Farms	1 defense	1 hospital	

Accessed Patterns Not Found

mosque
 temple
 divinity
 reponsibility
 worship
 air's*force
 religion
 soldier
 god
 mint
 creator
 proprietor
 divine
 county

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Agriculture s12s		306		2.3			21.9		
Defense s12s		9		0.06	7.5	90	0.64		
Education s12s		89		0.67	74.16		6.37		
Health s12s		175		1.31			12.52		
Labor s12s		76		0.57	63.33		5.44		
Money s12s		187		1.4			13.38		
People s12s		329		2.47			23.55		
Religion s12s		3		0.02	2.5	30	0.21		
State s12s		425		3.2			30.42		
Wealth s12s		419		3.15			29.99		

Rules Total 10 Rules Triggered 10 Rules Not Triggered 0 Percent of Rules Triggered 100%

4.9 International Roles s13s

[People](#) [Government](#) [Industry](#) [International](#) [Academia](#) [Community](#) [Money](#) [Time](#)

Accessed Patterns Found

417 world	391 international	356 city	289 International	288 people	273 government
256 World	225 year	173 business	158 country	131 industrial	120 industry
120 tax	116 University	86 Government	86 years	64 revenue	62 community
58 commercial	34 state	27 money	24 20 years	23 Business	22 states
22 subsidy	18 States	17 30 years	16 50 years	13 100 years	12 People
12 Industry	11 Industrial	11 School	10 10 years	9 Country	8 40 years
8 school	8 City	8 Year	7 Community	7 months	7 State
6 1000 years	5 academic	5 5 years	5 month	4 College	4 Commercial
4 000 years	3 25 years	3 Tax	3 citizen	3 250 year	3 Subsidy
3 45 years	3 20 year	2 town	2 200 years	2 150 years	2 university
2 Academic	2 Town	1 500 years	1 27 days	1 15 years	1 16 year
1 150 Years	1 10 year	1 80 years	1 400 years	1 6 years	1 2200 Year
1 commerce	1 3 months	1 12 months	1 academia	1 Revenue	1 100 days
1 1 month	1 60 years	1 3 days	1 450 years		

Accessed Patterns Not Found

fee

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Academia s13s		145		1.09			10.37		
Community s13s		630		4.74			45.09		
Government s13s		359		2.7			25.69		

Industry s13s		511		3.85			36.57		
International s13s		1295		9.75			92.69		
Money s13s		223		1.68			15.96		
People s13s		303		2.28			21.68		
Time s13s		463		3.48			33.14		

Rules Total 8 Rules Triggerred 8 Rules Not Triggerred 0 Percent of Rules Triggerred 100%

4.10 Special Interests s14s

[Defense](#) [Intelligence](#) [Food](#) [Health](#) [Pharmaceuticals](#) [Chemicals](#) [Mining](#) [Energy](#) [Transportation](#) [Manufacturing](#) [Education](#) [Science](#)
[Technology](#) [Environment](#) [Non Profit](#) [Financial](#) [Property](#) [Utilities](#) [Communications](#) [Entertainment](#) [Groups](#)

Accessed Patterns Found

803 energy	328 technology	257 power	239 water	224 Energy	216 gas
216 gas	203 road	196 production	162 research	155 environmental	132 land
131 industrial	128 agriculture	127 business	127 health	126 electricity	122 environment
116 University	110 Bank	102 financial	96 Research	96 stock	91 insurance
85 utility	85 bridge	85 coal	84 Environmental	80 Environment	79 science
77 oil	69 media	59 scientific	59 farm	59 Technology	50 security
46 aviation	45 businesses	45 FCC	43 education	40 nuclear	39 global warming
38 Science	38 property	35 commercial	34 disease	32 atc	32 biomass
28 tools	27 Agriculture	24 safety	24 biofuels	23 scientists	22 Water
21 Business	20 manufacturing	19 biodiversity	18 patent	18 Coal	17 chemical
17 Sciences	17 Financial	17 Health	17 utilities	17 Power	17 Insurance
16 Nuclear	15 Gas	15 Gas	14 Electricity	13 chemicals	12 car
12 Aviation	12 communication	12 communication	11 pharmaceutical	11 Land	11 women
11 manufacturers	11 tool	11 Industrial	11 Scientific	10 environments	9 School
9 environmentally	9 drug	8 Global Warming	8 fish	8 transportation	8 EPA
7 railway	7 retire	7 satellite	6 fisheries	6 biological	6 Education
6 internet	6 Tool	5 communications	5 grain	5 biofuel	5 Farm
5 patents	5 elderly	5 communications	5 Laboratory	5 bank	5 universities
5 fishing	5 school	5 academic	4 Property	4 Oil	4 Tv
4 biogas	4 Security	4 fcc	4 radio	4 Internet	4 Biological
4 College	4 manufacture	4 Hydro	4 Bridge	4 airport	4 Global warming
3 Books	3 mineral	3 computers	3 Transportation	3 TV	3 educational
3 Safety	3 cable	3 schools	3 Women	3 Defense	3 Railway
3 cable	2 Businesses	2 recording	2 nurse	2 mining	2 sciences
2 teachers	2 Professor	2 television	2 Manufacturing	2 Commercial	2 men
2 biocrops	2 Schools	2 Academic	2 laboratories	2 Fishing	2 military
2 Pharmaceutical	2 Patents	2 Communication	2 Disease	2 newspaper	2 Biofuels
2 bioethanol	2 young	2 highway	2 university	2 Communication	2 Production
1 fisheries	1 doctor	1 books	1 interstate	1 scientist	1 hydro
1 Military	1 mortgage	1 Universities	1 Road	1 Patent	1 Manufacture
1 Bioethanol	1 laboratory	1 Fish	1 BioCarbon	1 real estate	1 hospital
1 Utility	1 ENERGY	1 atC	1 Chemicals	1 Manufacturers	1 COAL
1 Scientist	1 Grain	1 Magazine	1 Utilities	1 cattle	1 Fisher
1 defense	1 manufacturer	1 Environmentally	1 Television	1 Biogas	1 businesswire
1 automobile	1 Biotic	1 Stock	1 Biology	1 bioclimate	1 labor
1 biodiesel	1 Manufactures	1 Universit	1 NASA	1 Laboratories	1 manufactured
1 bioproducts	1 Interstate	1 biophysical	1 Solar Wind	1 Telephone	1 Biomass
1 scientifically					

Accessed Patterns Not Found

army	physician	air force	intelligence	intelligence	poultry
genetic	plane	FDA	strip mine	coal	FAA
NTSB	FFRDC	airplace	boat	railroad	automation
students?	IRA	nano	non.profit	FFRDC	nonprofit
social security	music	401K	403B	electricity	Entertainment
movie		copyright	artist	art	minoritw*
student					

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Chemicals s14s		31		0.23	25.83		2.21		
Communications s14s		87		0.65	72.5		6.22		
Defense s14s		7		0.05	5.83	70	0.5		
Education s14s		204		1.53			14.6		
Energy s14s		1517		11.43					
Entertainment s14s		78		0.58	65		5.58		
Environment s14s		515		3.88			36.86		
Financial s14s		418		3.15			29.92		
Food s14s		236		1.77			16.89		
Groups s14s		218		1.64			15.6		
Health s14s		198		1.49			14.17		
Intelligence s14s		54		0.4	45		3.86		
Manufacturing s14s		276		2.08			19.75		
Mining s14s		107		0.8	89.16		7.65		
Non Profit s14s									
Pharmaceuticals s14s		21		0.15	17.5		1.5		
Property s14s		356		2.68			25.48		
Science s14s		482		3.63			34.5		
Technology s14s		533		4.01			38.15		
Transportation s14s		411		3.09			29.42		
Utilities s14s		588		4.43			42.09		

Rules Total 21 Rules Triggered 20 Rules Not Triggered 1 Percent of Rules Triggered 95%

4.11 Emotions s15s

[Happy](#) [Sad](#) [Love](#) [Hate](#) [Fear](#)

7 care 5 harm 1 depressed 1 fear 1 Love

Accessed Patterns Not Found

happy
laugh joy smile silly goofy amusing
sad cry lonely kiss hug hate
hurt attack kill murder scare tremble

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Fear s15s		1		0	0.83	10	0.07		
Happy s15s									
Hate s15s		5		0.03	4.16	50	0.35		
Love s15s		8		0.06	6.66	80	0.57		
Sad s15s		1		0	0.83	10	0.07		

Rules Total 5 Rules Triggered 4 Rules Not Triggered 1 Percent of Rules Triggered 80%

4.12 Overall Reaction s16s

[Positive](#) [Negative](#)

Accessed Patterns Found Hide

2 war 2 War 1 Fight 1 fight 1 Love 1 fear
Alpha Sort
1 Love 1 Fight 2 War 1 fear 1 fight 2 war

Accessed Patterns Not Found

kiss happy joy anger destroy hate

Item	Risk	Count	Children	% lines	% imperative	% shall	% will	% isreq	% Norm
Negative s16s		7		0.05	5.83	70	0.5		
Positive s16s		1		0	0.83	10	0.07		

Rules Total 2 Rules Triggered 2 Rules Not Triggered 0 Percent of Rules Triggered 100%