

Applying Complexity Thinking to Solving Global Problems

Don Tapscott www.dontapscott.com 416 863 8801 @dtapscott

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Applying Complexity Thinking to Global Problems

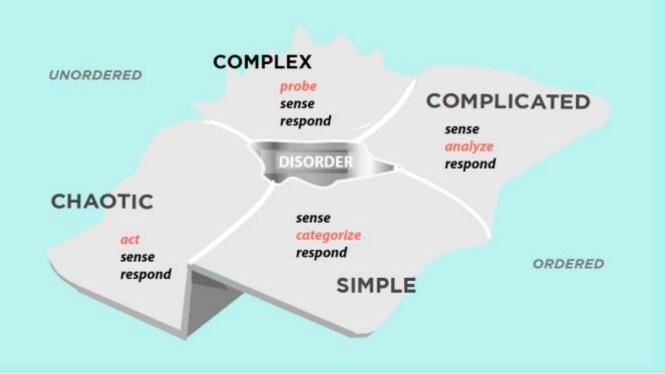
OLD:

- 1. Order exists
- 2. Finite elements interacting linearly
- 3. Conditions are predictable
- 4. Solutions can be imposed
- 5. Traditional institutions can work
- 6. Leaders create a vision and make decisions

NEW:

- 1. The world is complex and unordered
- 2. Infinite elements interact in a networked fashion
- 3. High degree of unpredictability
- 4. Solutions emerge through selforganization
- 5. New networked models are critical
- 6. Leaders curate conditions for emergence

Snowden's Cynefin Model



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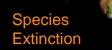






Global Problems

Economic Collapse















World Becoming "Ungovernable", Says Peres

adrian.monck@weforum.org

- * Global corporations are replacing the role of governments
- * Corporations are answering the younger generations' call for individuality
- The theme of the 43rd World Economic Forum Annual Meeting is Resilient Dynamism. For more information, visit http://wef.ch/Davos

Davos-Klosters, Switzerland, 24 January 2013 – Speaking this afternoon at the 43rd World Economic Forum Annual Meeting, Shimon Peres, President of Israel, said the world is becoming ungovernable. "Governments have found themselves unemployed because the economy has become global while governments remain national," he said.

The Bretton Woods System

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The World After WWII

- 1944:The Bretton Woods AgreementsIncluded: World Bank and the International Monetary Fund (IMF)
- 1945: The United Nations
- 1946: UNESCO
- 1947: General Agreement on Tariffs and Trade (GATT)
- 1947: The International Standards Organization (ISO)
- 1948-9: Universal Declaration of Human Rights and Geneva Conventions
- 1975: Establishment of the G8 (Group of Eight)
- 1995: World Trade Organization (WTO) replaces GATT
- 2008: Establishment of the G20 (Group of Twenty Finance Ministers and Central Bank Governors) 19 countries plus European Union

A Burning Platform for Change

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The Rise of Collaborative Communities





Ronald Coase (1910–2013)

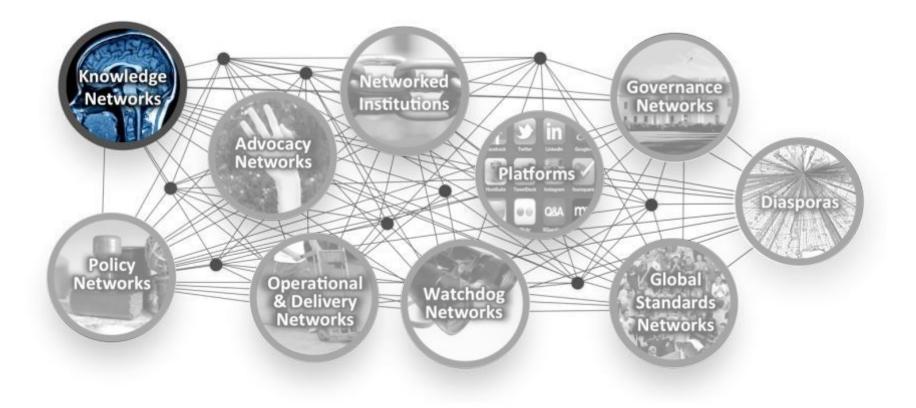
The Economics of Collaboration: New Competitive Space

Global Solution Networks

- 1. Diverse Stakeholders
- 2. Addresses a Global Problem
- 3. Exploits the Digital Revolution
- 4. Self-Organized Governance

Taxonomy of Global Solution Networks





Arctic futures

and Afghanistan

security trends

China and global security

Global health and security

Transport and security

International relations and

ABMED CONFLUCT AND

Trends in armed conflicts

Resources and conflict

Peacekeeping and

percolunding

ARMAMENTS

Military expenditure

The arms industry

chemical weapons

ARMS CONTROL.

PROLIFERATION

Emerging military

section of the sectio

control

Nuclear, biological and

CONFLICT MANAGEMENT

MILITARY SPENDING AND

International arms transfers

DISARMAMENT AND NON-

Biotechnology assessment.

Dual-use and arms trade

Eurasia, wider Central Asia

STOCKHOLM INTERNATIONAL PEACE RESEARCH INSTITUTE Stockholm Beitino Research on questions of conflict and cooperation of importance for international peace and security Washington sipri Research Databases Publications SIPRI Yearbook Library SIPRI North America Modific Bloom Acousticity Search Site SEARCH REGIONAL AND GLOBAL SHORTCUTS SECURITY. Welcome to SIPRI Staff contact list Africa security and governance

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SIPRI in the media : 22 Aug - Russia's hypocrisy on Syria (Now Lebanon..., Lebanon) 000000000

= 17 Aug: SIPRI Governing Board Member Lakhdar Brahimi new UN Svria envov

NEWS

Ambassador Lakhdar Brahimi was today appointed as the new UN-Arab League envoy for Syria. Brahimi has been a SIPRI Governing Board member since April 2009 and has carried out extensive work in the field of conflict resolution, peacemaking and peacekeeping.

26 July: Syria's chemical weapons and protection against their use: a brief overview

The escalation of the current conflict in Syria gives greater impetus to efforts to determine the fate of Syria's weapon programmes and, in particular, its reported stocks of chemical

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IN FOCUS Conflict in Syria

Check out the Arms Transfers database about Syrian arms imports from Russia and others and contact our experts Paul Holtom or Pieter Wezeman for detailed insights.

Read also the expert comment on Syria's chemical weapons by SIPRI Senior Resercher John Hart.

SIPRI Yearbook 2012 now available



SIPRI Yearbook 2012 offers cutting-edge information and analysis on the state of the world's nuclear forces, the international peacekeeping agenda and steps to control WMD.

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SIPRI PUBLICATIONS

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DATABASES

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- Facts on International Relations and Security Trends
- SIPRI Multilateral Peace Operations Database
- SIPRI Military Expenditure Database
- SIPRI Arms Transfers Database
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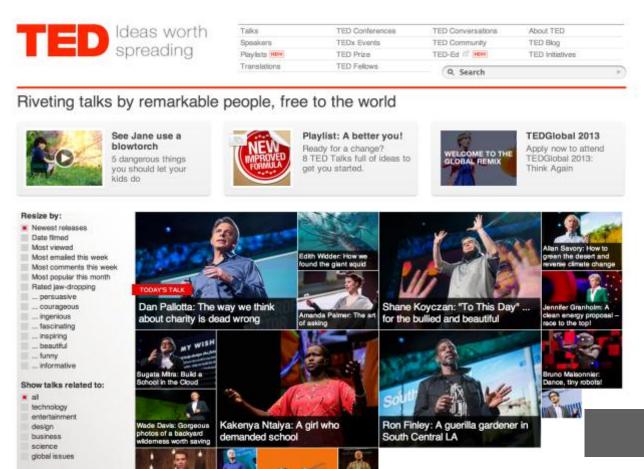
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Q*	English	

Wikipedia.org



TED.com



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Experience a privileged glimpse of the distant universe, observed by the Sloan Digital Sky Survey and Hubble Space Telescope

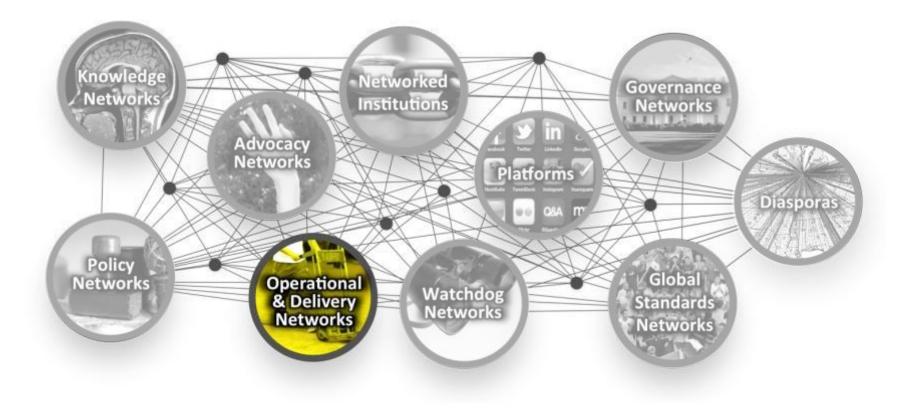


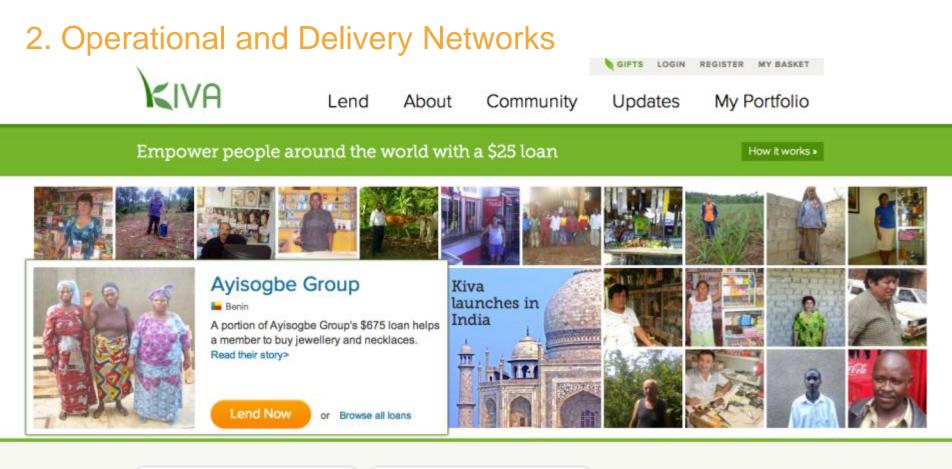
To understand how galaxies formed we need your help to classify them according to their shapes. If you're qakk, you may even be the first person to see the galaxies you're asked to classify.

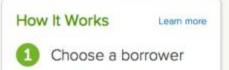




2. Operational & Delivery Networks





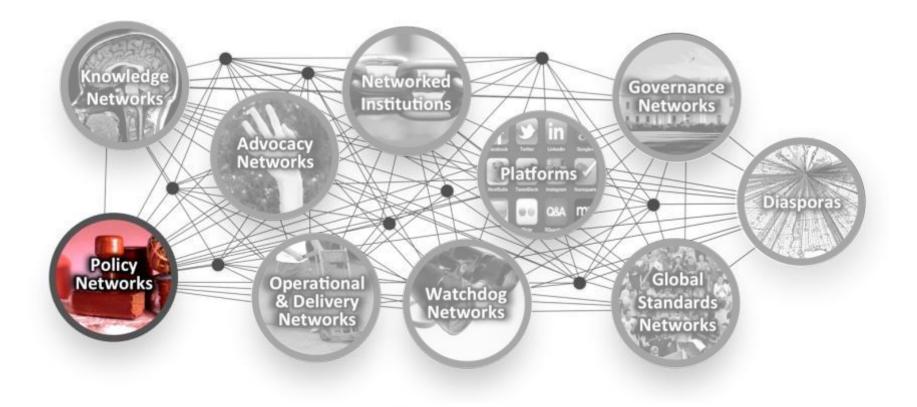


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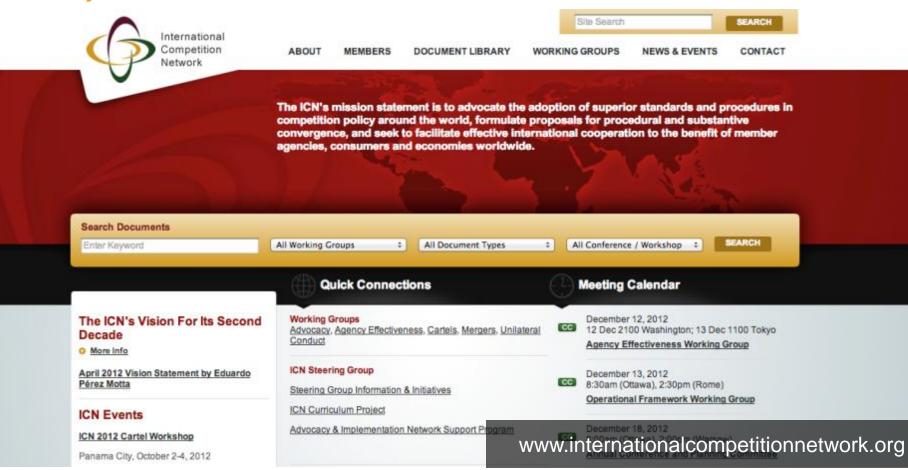
lenders made a loan this week.



3. Policy Networks

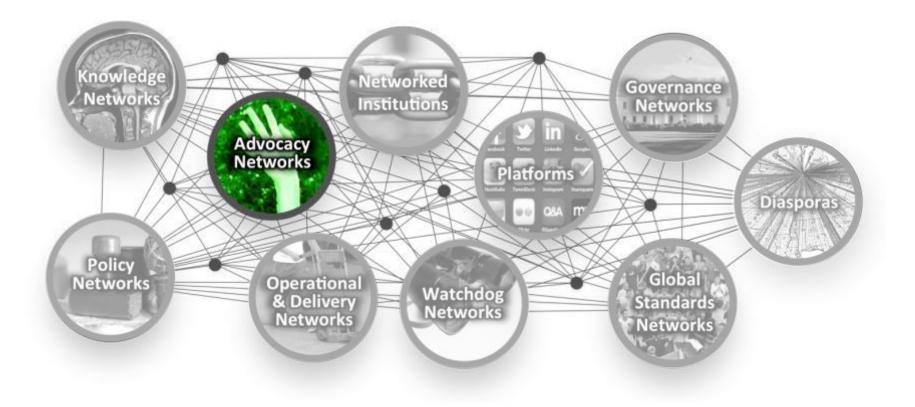


3. Policy Networks



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4. Advocacy Networks



4. Advocacy Networks



HAPPENING NOW - SAVE THE RHINOS! Sign the petition

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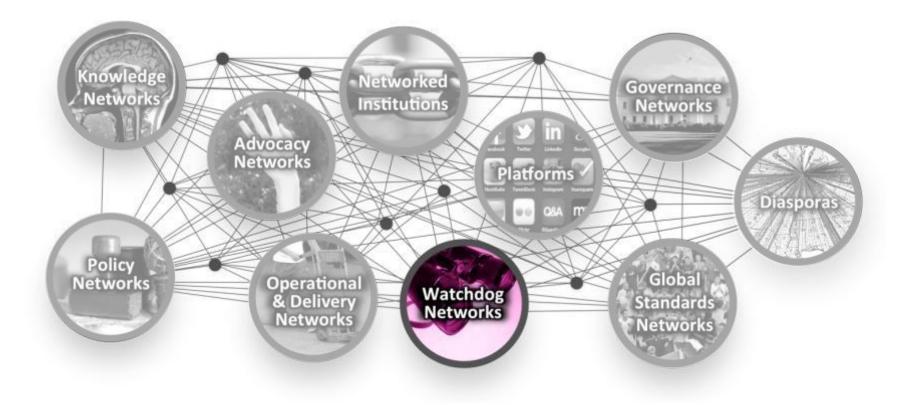
THE AVAAZ MOVEMENT: 14,460,376

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5. Watchdog Networks



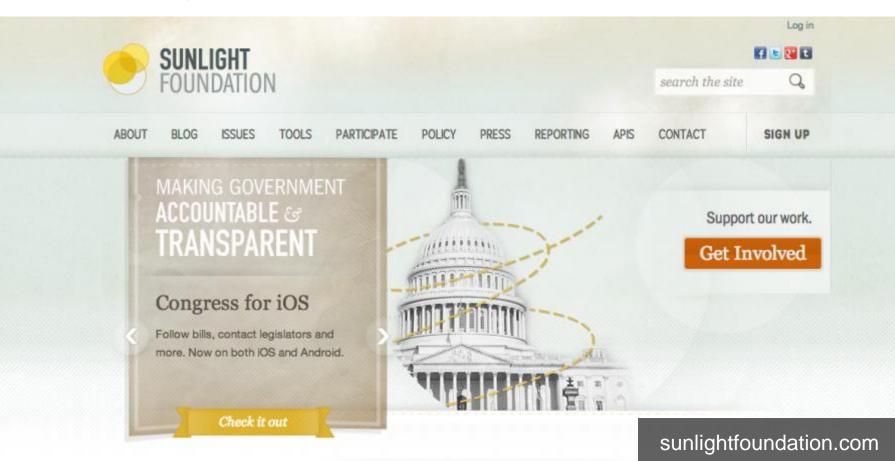
5. Watchdog Networks



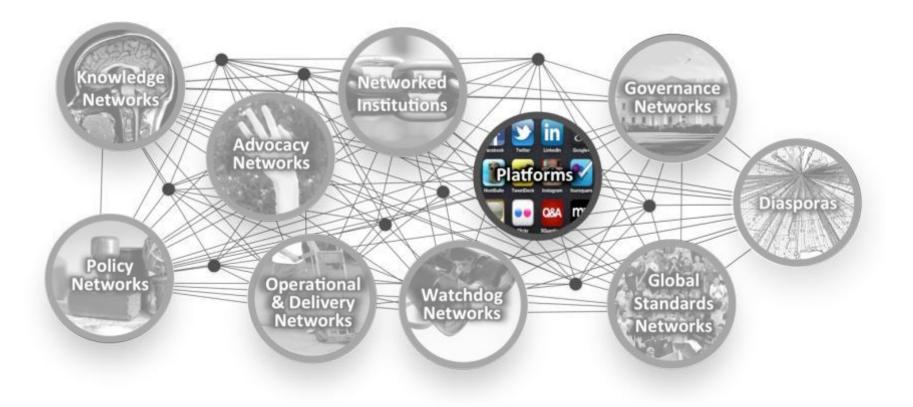
in Burns of Analysis Couts

www.hrw.org

5. Watchdog Networks



6. Platforms



6. Platforms



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THE PLATFORM

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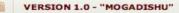
Haiti Live







Download Ushahidi



Join up!

Ushahidi is a free and open source project with developers hailing from Kenya, Ghana, South Africa, Malawi, Netherlands and the USA working on it. There are some significant technological challenges and we are always looking for help.

or



What it does?

The Ushahidi Platform allows anyone to gather distributed data via SMS, email or web and visualize it on a map or timeline. Our goal is to create the simplest way of aggregating information from the public for use in crisis response.



Deployments



Sudan Vote Monitor Using SMS to monitor elections in the Sudan

More deployments here

6. Platforms



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GETTING STARTED : IDEA BLUEPRINT : IDEA EXECUTION : THE INDIVIDUAL

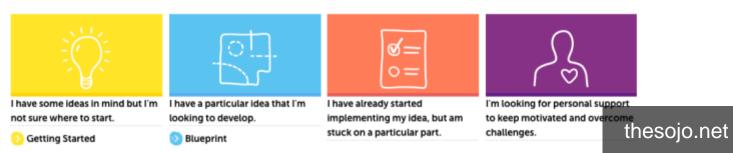
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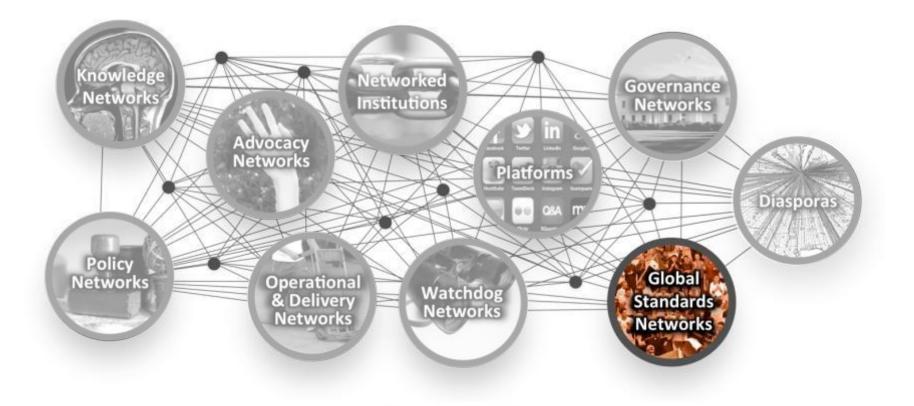
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Where are you in your journey?



7. Global Standards Networks



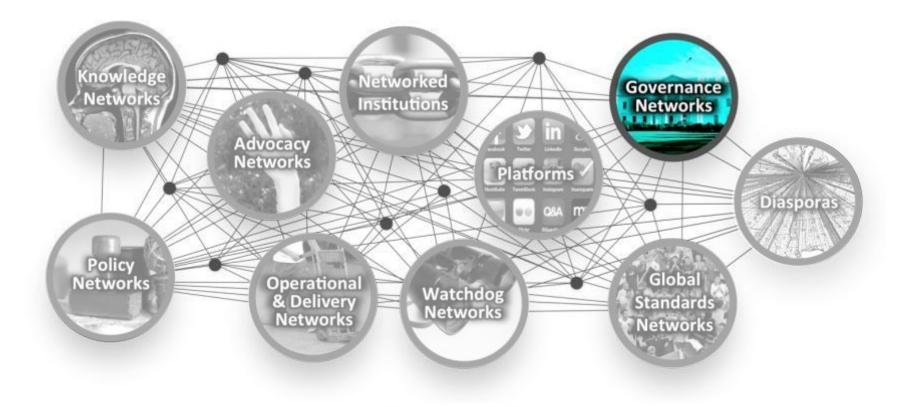
7. Global Standards Networks

W3C	Views: desktop mobile print	W3C By Region 🗘 Go	
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	 Call for Review: 'R2RML: RDB to RDF Mapping Language' and 'A Direct Mapping of Relational Data to RDF' Proposed Recommendations Published 	The World Wide Web Consortium (W3C) is an international community that develops open standards to ensure the long-term growth of the Web. Read about the W3C mission.	
Web Design and Applications	14 August 2012 Archive		
K Web Architecture		JOBS	
Semantic Web	The RDB2RDF Working Group has published two Proposed Recommendations today:		
XML Technology	R2RML: RDB to RDF Mapping Language. This document describes R2RML, a language for	Packaged Web Applications Specialist	
Web of Services	expressing customized mappings from relational databases to RDF datasets. Such mappings provide the ability to view existing relational data in the RDF data model, expressed in a structure	Keio Business Development Lead	
Web of Devices	and target vocabulary of the mapping author's choice. R2RML mappings are themselves RDF	Web Accessibility Specialist	
Browsers and Authoring Tools	graphs and written down in Turtle syntax. R2RML enables different types of mapping implementations. Processors could, for example, offer a virtual SPARQL endpoint over the	web Accessibility Specialist	
or view all	mapped relational data, or generate RDF dumps, or offer a Linked Data interface. Comments are welcome through 15 September.	Web Accessibility Engineer	
	A Direct Mapping of Relational Data to RDF. The need to share data with collaborators motivates	W3C BLOG	
	custodians and users of relational databases (RDB) to expose relational data on the Web of Data. This document defines a direct mapping from relational data to RDF. This definition provides		
W3C A to Z	extension points for refinements within and outside of this document. Comments are welcome through 15 September.	Pitch in front of Michael[tm] Smith – present your #HTML5 developments #W3C #Berlin	
Accessibility		20 August 2012 by Bernard Gidon	
Internationalization	The group also published two Working Group Notes today:		
Mobile Web	R2RML and Direct Mapping Test Cases. This document defines the R2RML and Direct Mapping	14 August 2012 by Ashok Malhotra	

7. Global Standards Networks



8. Governance Networks



8. Governance Networks







Recent Announcements

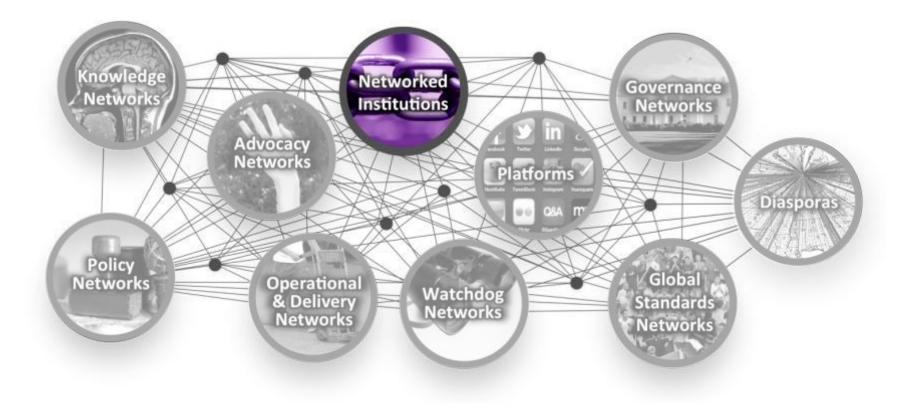
Fellowship Application Round Opens for ICANN International Public Meeting 45 in Toronto, Canada

23 May 2012

MARINA DEL REY, California: The Internet Corporation for Assigned Names and Numbers is now accepting online applications for the 17th round of the... More »

www.icann.org

9. Networked Institutions



9. Networked Institutions

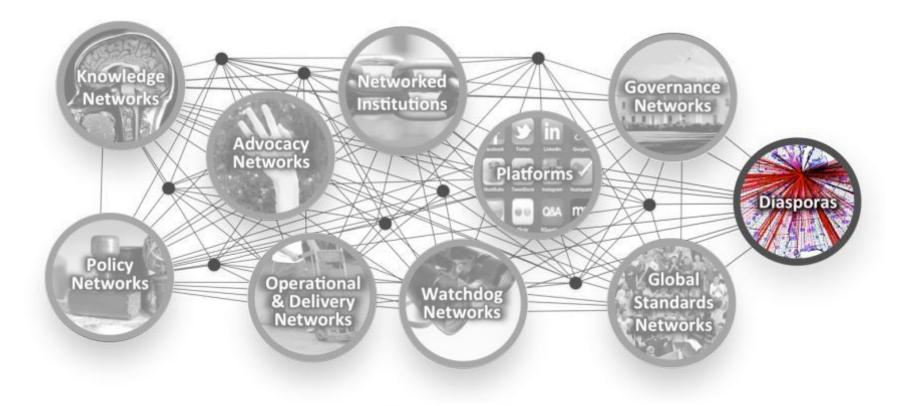


The World Economic Forum is an independent international organization committed to improving the state of the world by engaging business, political, academic and other leaders of society to shape global, regional and industry agendas.

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10. Diasporas



10. Diasporas

DIASPORA

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US Secretary of State Hillary Clinton, 2012

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Taxonomy of Global Solution Networks



SOLUTION The Global Solution Networks Program

Among the Initial Faculty

- Anthony D. Williams, Fellow, Munk School of Global Affairs
- Anne-Marie Slaughter, Professor of Politics and International Affairs, Princeton University
- Ngaire Woods, Dean, Blavatnik School of Government, Oxford University
- Pankaj Ghemawat, IESE Business School, Barcelona
- Richard Florida, Director, Martin Prosperity Institute
- Alec Ross, Former Senior Advisor for Innovation, Office of the Secretary of State
- Kris Balderston, Former Office of the Secretary of State
- Bruce Jenks, NYU, Former Assistant Undersecretary, United Nations
- Robert Madelin, Director-General for Information, Society and Media
- Parag Khanna, Author of How to Run the World; President, Hybrid Reality Institute
- Barbara Ridpath, CEO, International Center Financial Regulation
- Sara Boettiger, University of California Berkley
- Lynn St. Amour, President, Internet Society
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