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Policy-Driven EGOV

A Context for EGOV at W3C?

Tomasz Janowski

UNU-IIST Center for Electronic
Governance



Two decades of development, innovation and research – well established area

Evolving Goals

Increasing the quality and efficiency of internal government operations

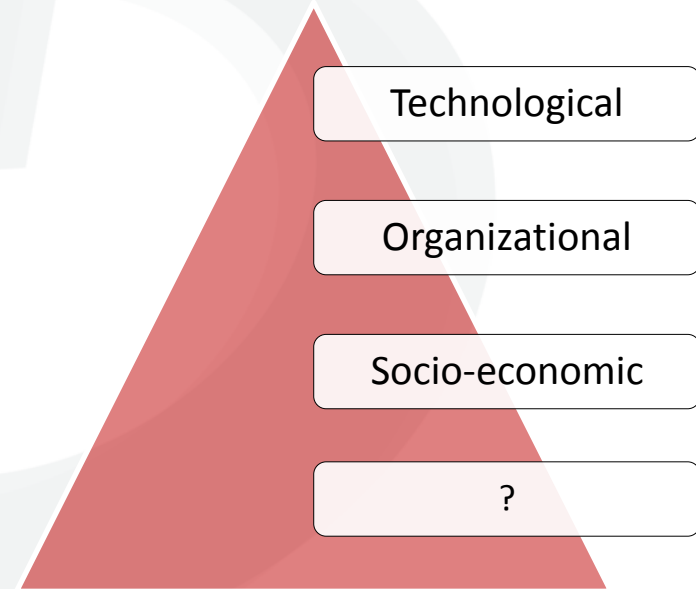
Delivering better public services across traditional and electronic channels

Facilitating administrative and institutional reform in government

Engaging citizens and other non-state actors in policy- and decision-making processes

Supporting policy and development goals in health, education, security and other sectors

Expanding Context



Time

Uncertain future and impact on government, society and economy

TECHNOLOGICAL RESPONSE



TECHNOLOGY IN GOVERNMENT

GOALS

- Establishing government portals
- Automating administrative processes
- Providing online access to public services

CHALLENGES

- Connecting agencies, citizens and businesses to the Internet
- Ensuring interoperability of systems run by different agencies
- Connecting legacy systems to other systems and the Internet

LIMITATIONS

- Technology can only deliver if accompanied by organizational change
- Developing more mature services raises organizational issues
- Technological development alone does not produce public value

ORGANIZATIONAL RESPONSE



ELECTRONIC GOVERNMENT

GOALS

Reengineering administrative processes
Enabling collaboration between government agencies
Offering services across agencies according to the needs of citizens

CHALLENGES

Hierarchical organization, inward looking culture and lack of collaboration
Orientation on maintenance, not outcomes
Resistance to change

LIMITATIONS

Higher service maturity may not lead to higher usage
Lack of public consultation and capacity building are sources of failure
Internal government transformation alone does not create public value



GOALS

Utilizing social media to engage citizens in government decision-making
Making government data available for businesses to build public services
Integrating public, private and non-profit services into one service space

CHALLENGES

Digital divide – gender, age, socio-economic, geographic, etc.
Lack of trust – citizens not trusting government, government not trusting citizens
Engaging non-state actors in public service delivery

LIMITATIONS

What local policy objectives are being pursued?
How are such objectives pursued given the local conditions?
What is the impact of meeting such objectives on the local environment?



Turning point

Economic pressures, social tensions, global competition, tremendous development needs all question “generic” approaches to public sector ICT investment.

Local development context

Directly supporting policy and development goals in health, education, economy, environment, governance, security and other sectors while taking into account specific local conditions and priorities.

Public investment in ICT is expected to produce public value

EGOV contributing to a larger policy objective e.g. Sustainable Development (EGOV4SD)

AIM AND OVERVIEW

AIM

Present and illustrate the concept of a policy-driven EGOV as a possible context for EGOV at W3C.

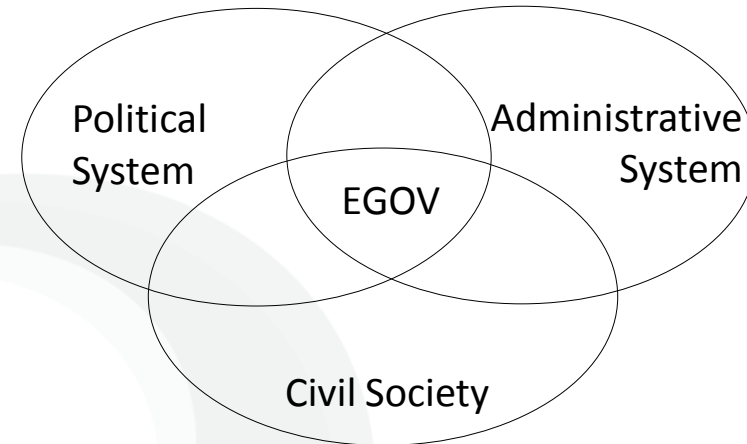
OVERVIEW

- 1 EGOV EVOLUTION
- 2 EGOV POLICY OBJECTIVE
- 3 EGOV POLICY-DRIVEN DEVELOPMENT
- 4 EGOV POLICY-DRIVEN DEVELOPMENT AND W3C
- 5 CONCLUSIONS

ELECTRONIC GOVERNANCE

DEFINITION

Transforming the working of government and its interactions with citizens, businesses, civil society and other arms of government through technology



DIMENSIONS

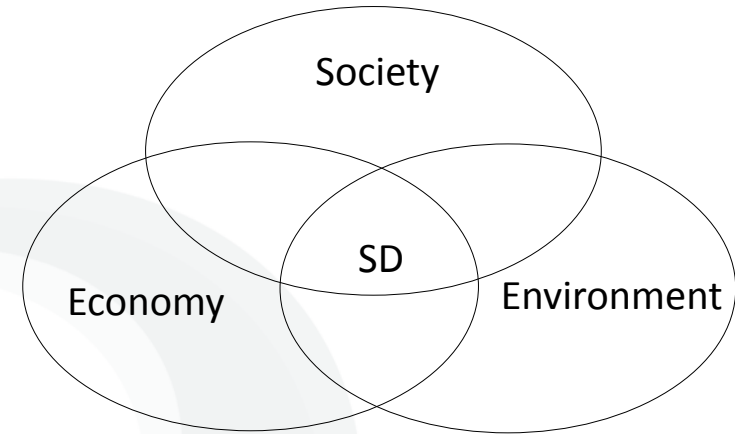
GOVERNMENT	TECHNOLOGY	INTERACTION	CUSTOMERS	SOCIETY
Mission	Equipment	Channels	Information needs	Demography
Role	Infrastructure	Channel Strategy	Service needs	Digital inclusion
Values	Data	Interoperability	Producer roles	Institutional change
Operations	Social Media	Partnerships	Consumer roles	Social tension
Services	Services	Goals	Accessibility	Globalization
Institutions	Applications	Governance	Trust	Migration

SUSTAINABLE DEVELOPMENT



DEFINITION

Development that meets the needs of the present generation without compromising the ability of the future generations to meet their own needs.



DIMENSIONS

ENVIRONMENTAL

- Climate change
- Water Scarcity
- Land degradation
- Fish stock depletion
- Biodiversity loss
- Deforestation

ECONOMIC

- Transportation
- Logistics
- Energy Consumption
- Economic Growth

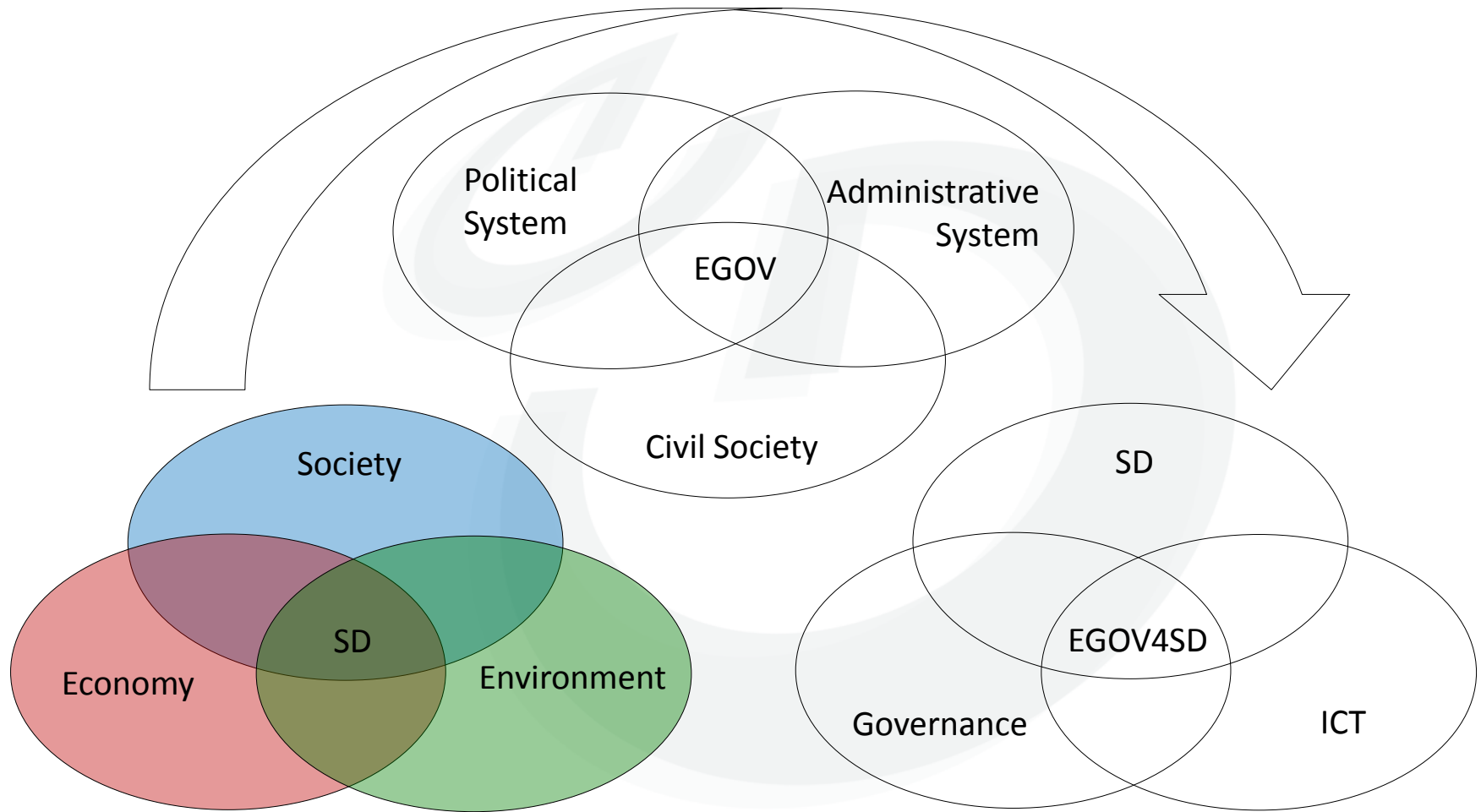
SOCIAL

- Poverty and inequality
- Hunger and malnutrition
- Gender imbalance
- Illiteracy
- Maternal/infant mortality
- Access to communication

TRANSITIONAL

- Green accounting
- Renewable energy
- Voice and empowerment
- Environmental practice
- Policy integration

EGOV + SD = EGOV4SD



EGOV4SD DEPENDENCY MATRIX 1



		SD	EGOV DIMENSIONS				
DIMENSIONS	GOALS		GOVERNMENT	TECHNOLOGY	INTERACTION	CUSTOMERS	SOCIETY
Social	Access for all						
	Reducing poverty and inequality						
	Reducing gender inequality						
	Reducing infant and maternal mortality						
Economic	Transportation and logistic						
	Economic growth						
	Improved energy consumption						

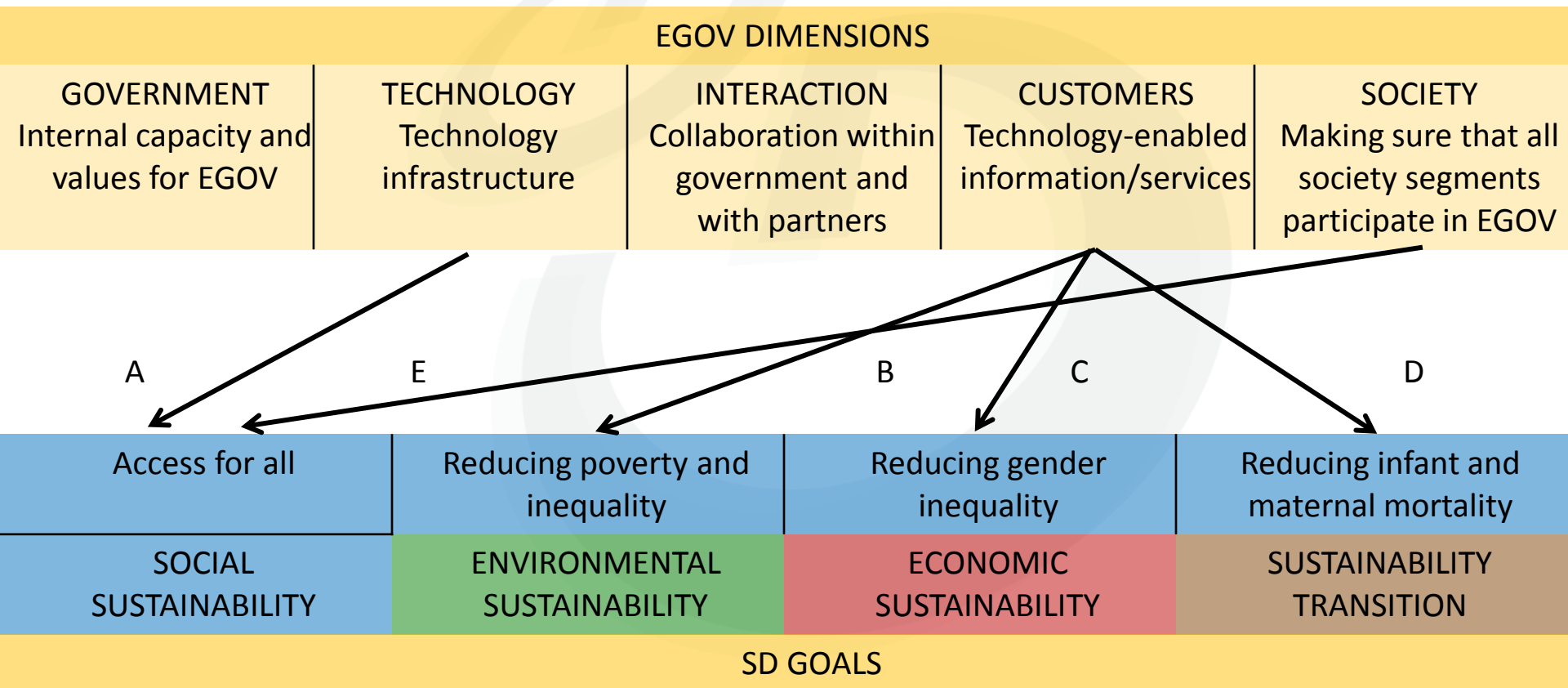
EGOV4SD DEPENDENCY MATRIX 2



SD		EGOV DIMENSIONS				
DIMENSIONS	GOALS	GOVERNMENT	TECHNOLOGY	INTERACTION	CUSTOMERS	SOCIETY
Environmental	Climate change					
	Improved water management					
	Reduced land degradation					
	Restoration of biodiversity					
Transitional	Green accounting					
	Access of under-privileged groups					
	Adoption of environmentally friendly practices					
	Energy from renewable sources					

SOCIAL SUSTAINABILITY – MAPPING

How can EGOV initiatives explicitly address the Social Sustainability goals?



SOCIAL SUSTAINABILITY – MEASURES



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- | | |
|---|---|
| A | EGOV technology initiatives should consider accessibility (cost, ability to use, etc.) of all segments of society in their technology choices, e.g. support for mobile channels for service delivery. |
| B | EGOV services should enable citizens and particularly the disadvantaged to meet their critical livelihood needs like access to jobs, primary health services, educational services, sanitation, etc. |
| C | EGOV services in rural areas and at lower levels of government should be specifically targeted at women as critical actors in the social and economic development of families. |
| D | EGOV services should support government public health efforts in reducing infant and maternal mortality by providing necessary information to mothers, particularly in the less developed areas. |
| E | EGOV initiatives should involve participation of different members of the society and should not exacerbate existing digital divide. |

SOCIAL SUSTAINABILITY – STRATEGIES

SINGAPORE 2015	KOREA 2012	ESTONIA 2013
Next generation infocomm infrastructure	Public-private collaborative governance	One service space - public, private and third sectors
Innovation centers and entrepreneurship	Seamless and converged informatization	Paperless document management
Infocomm competency framework	Active response to adverse effects of informatization	Traceability of the use of one's own data
Electronic health records	Utilization-focused services	Internet in rural areas
EUROPEAN UNION 2015	UNITED NATIONS 2010	WASEDA 2011
Improve (seamless) services to cater for different needs	Government data sharing based on open standards	Increase of social media applications for participation
Invite third parties in EGOV development	From readiness to development	Cloud computing and data center virtualization
Involve stakeholders in public policy processes	Agility to respond to more demands as revenues drop	Disaster management and business continuity
Reduce carbon footprint	Citizen-centric practice	Smart grid and green technology

SOCIAL SUSTAINABILITY – EXAMPLE



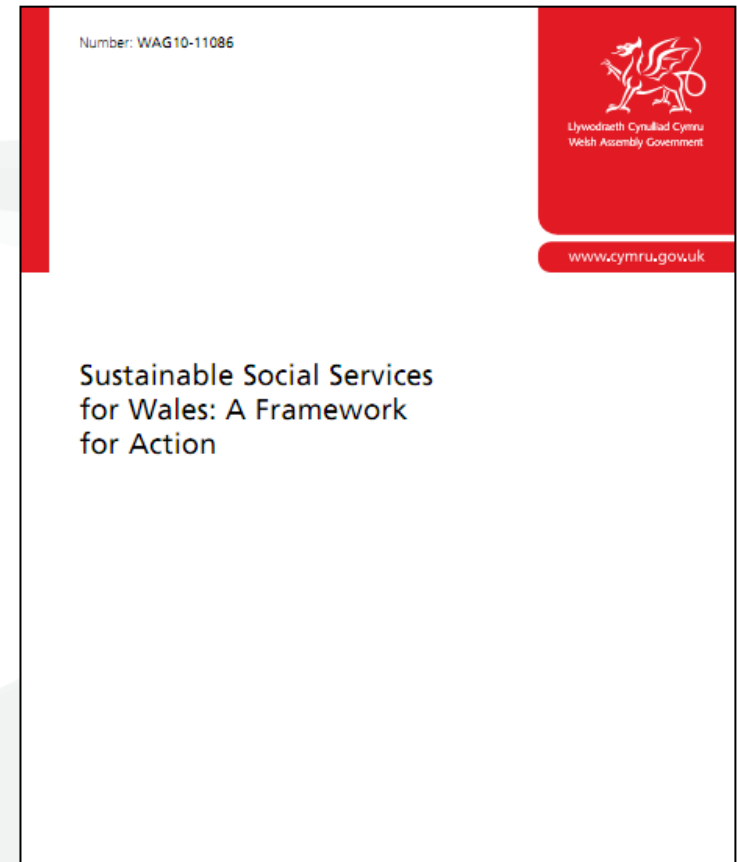
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Sustainable Social Services for Wales, UK

Priority actions:

1. A strong national purpose and expectation and clear accountability for delivery
2. A national outcomes framework
3. Citizen centered services
4. Integrated services
5. Reducing complexity
6. A confident and competent workforce
7. Safeguarding and promoting the wellbeing of citizens
8. A new improvement framework for Wales

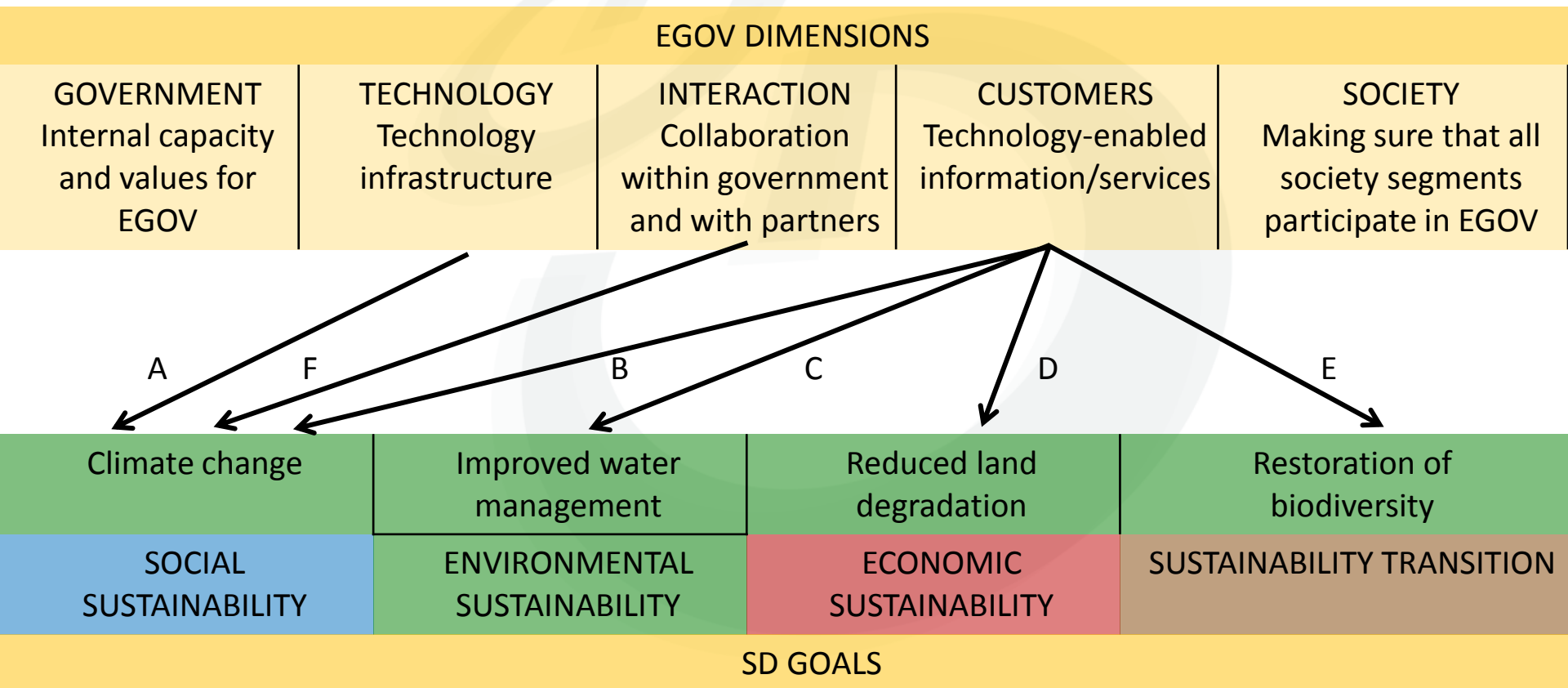


<http://wales.gov.uk/docs/dhss/publications/110216frameworken.pdf>

ENVIRONMENTAL SUSTAINABILITY – MAPPING



How can EGOV initiatives explicitly address the Environmental Sustainability goals?



ENVIRONMENTAL SUSTAINABILITY – MEASURES



- | | |
|---|--|
| A | Use of low or zero carbon-emission ICT equipment for government operations (front and back office) |
| B | Providing information and services to citizens on how they can contribute to addressing the climate change (e.g. carbon footprint calculators) to support decisions about the choice of delivery channels. |
| C | Providing information and services for citizens and businesses on better domestic water management practices and smart metering systems. |
| D | Providing information to citizens on better land use practices and information systems at government offices for better management of land use, with relevant services for citizens. |
| E | Providing information to citizens on the practices that can improve or restore biodiversity and develop relevant information systems to monitor ecological areas of interests. |
| F | Develop partnerships with relevant environmental agencies to deliver A – E, including improved water management, reduction of land degradation and restoration of biodiversity. |

ENVIRONMENTAL SUSTAINABILITY – STRATEGIES



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ENVIRONMENTAL SUSTAINABILITY – EXAMPLE



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Crowd-sourcing renewable energy strategy on the Internet, Maldives:

AIM Experts around the world are invited to provide technical advice on low-carbon energy generation, storage and financing through <http://maldives.co2.org>

GOALS Making the country carbon-neutral by 2020
Addressing lack of local technical expertise

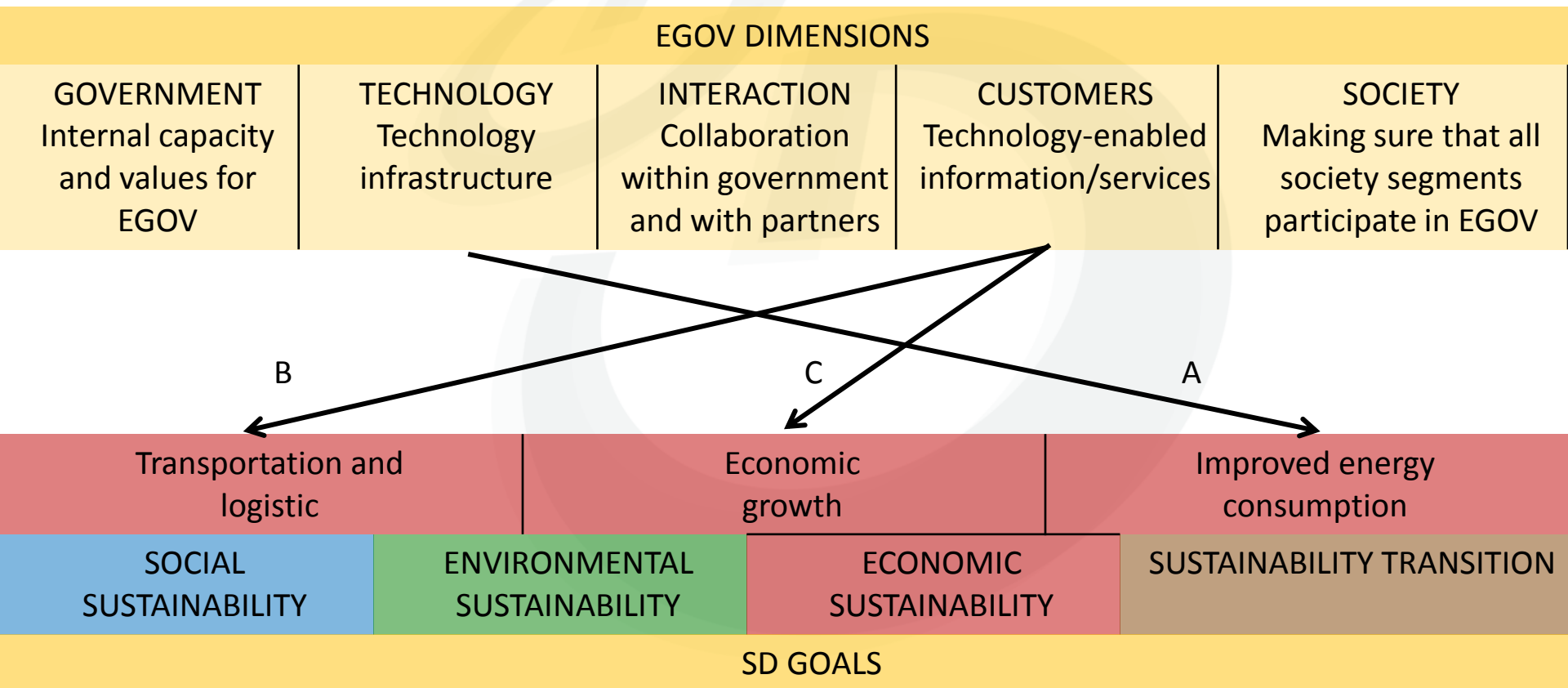
SCOPE 8 themes and 65 theme-related questions, e.g.

1. How should Maldives pursue carbon neutrality vis-à-vis short-term economic wellbeing?
2. How should Maldives account for tourist air travel in its quest for carbon neutrality?
3. Should air travelers contribute financially to de-carbonization of the Maldives economy?
4. What level of oil price should the Maldives use for planning its energy future?



ECONOMIC SUSTAINABILITY – MAPPING

How can EGOV initiatives explicitly address the Economic Sustainability goals?



ECONOMIC SUSTAINABILITY – MEASURES



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- A Use of energy efficient technology equipment in government operations and incorporation of such equipment in the government procurement practice.
- B Providing information and services to citizens to help reduce transport congestion e.g. real time service to check traffic situations in different parts of cities.
- C Providing information and services to enterprises and businesses to support their operations, interaction with governments, and growth.

ECONOMIC SUSTAINABILITY – STRATEGIES



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ECONOMIC SUSTAINABILITY – EXAMPLE

Green occupational guidelines for 23 occupations by California Government

Informational services:

1. Work to be carried out as a ...
2. Required skills
3. Possible tasks and required skills
4. Working conditions
5. Job expectations
6. Wages and benefits
7. Job outlook
8. Qualifications
9. Training opportunities
10. Job opportunities



Summary Guide (Printer Friendly)
Detailed Guide (Printer Friendly)

Detailed Report-Jump to:

- Top of Page
- What Would I Do?
- Wages and Benefits
- Job Outlook
- How Do I Qualify?
- Job Search Tips

I want to:

- Search by Topic
- Search by Keyword



Estimated Employment and Projected Growth Carpenters					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacement
California (2008-2018)	138,700	148,900	10,200	7.4	17,300

Source: EDD/LMID [Projections of Employment by Occupation](#)

[View Projected Growth for All Area](#)

Annual Job Openings

In California, an average of 1,020 new job openings per year is expected for Carpenters, plus an additional 1,730 job openings due to net replacement needs, resulting in a total of 2,750 job openings.

Estimated Average Annual Job Openings Carpenters			
Geographic Area (Estimated Year- Projected Year)	Jobs From Growth	Jobs Due to Net Replacements	Total Annual Job Openings
California (2008-2018)	1,020	1,730	2,750

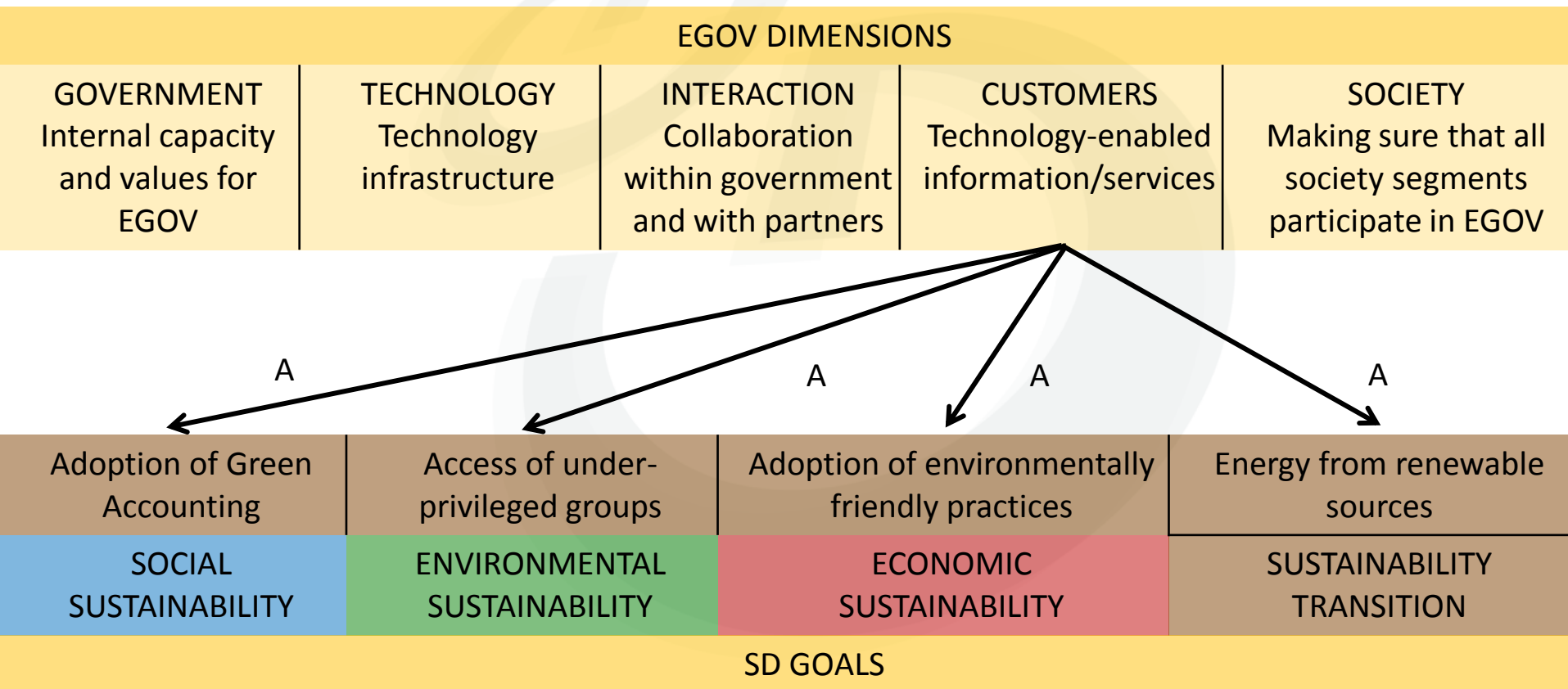
Source: EDD/LMID [Projections of Employment by Occupation](#)

[View Data for All Areas](#)

<http://www.labormarketinfo.edd.ca.gov/OccGuides/GreenIndexOfGuides.aspx?Geography=0601000000>

SUSTAINABILITY TRANSITION – MAPPING

How can EGOV initiatives explicitly address the Sustainability Transition goals?



SUSTAINABILITY TRANSITION – MEASURES

A Provide information and electronic services that show key SD indicators and their interpretation for citizens and agency management [9]:

SOCIAL INDICATORS

1. Population, density, growth rate
2. Life expectancy, infant mortality
3. Urban/rural population distribution
4. Percentage of voting population

ENVIRONMENTAL INDICATORS

1. Plant biodiversity
2. Animal population
3. Depletion of fossil fuels
4. Topsoil and farmland loss

ECONOMIC INDICATORS

1. Air travel
2. Energy consumption
3. Growth of economic activity
4. Agricultural production density

TRANSITIONAL INDICATORS

1. Changes in food and nutrition style
2. Environmental and general education
3. Percent of energy from renewable sources
4. Access of the poor to public decision-making

SUSTAINABILITY TRANSITION – STRATEGIES



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SUSTAINABILITY TRANSITION – EXAMPLE

Directgov, UK

Offering informational services on environment and greener living:

1. Recycling and reducing waste
2. Climate change and environment protection
3. Energy saving and generation
4. Greener home and garden
5. Greener travel and leisure
6. Keeping farm animals and bees
7. Greener community and work
8. Greener life events and celebrations



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Browse by subject

- ▶ Crime and justice
- ▶ Education and learning
- ▶ Employment
- ▶ **Environment and greener living**
- ▶ Government, citizens and rights
- ▶ Health and well-being
- ▶ Home and community
- ▶ Money, tax and benefits
- ▶ Motoring
- ▶ Pensions and retirement planning
- ▶ Travel and transport

Browse by people

- ▶ Young people
- ▶ Britons living abroad
- ▶ Caring for someone
- ▶ Disabled people

Environment and greener living

Environment and greener living

Big Wildlife Competition
 What you do for nature on your doorstep can make a big difference for wildlife. The Big Wildlife Competition wants to find the best wildlife gardens in the UK. For details on how to enter, follow the link below

▶ The Big Wildlife Garden

▶ Recycling and reducing waste

- ▶ Recycling at home
- ▶ Recycling batteries
- ▶ Waste and recycling: a quick guide
- ▶ More on recycling and reducing waste

▶ Energy saving and generation

- ▶ Saving energy at home

▶ Climate change and protecting the environment

- ▶ Climate change
- ▶ Protecting the environment
- ▶ Protecting wildlife
- ▶ Pollution

▶ Greener home and garden

- ▶ Home and shopping
- ▶ Greener gardenia

<http://www.direct.gov.uk/en/Environmentandgreenerliving/index.htm>

AIM AND OVERVIEW

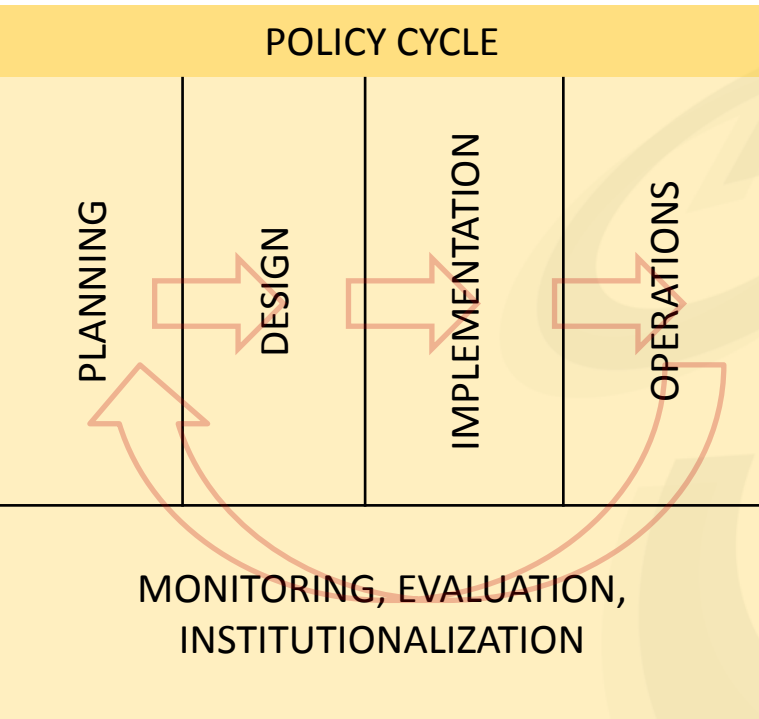
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POLICY-DRIVEN EGOV DEVELOPMENT



VALUE FRAMEWORK					
SD	EGOV				
	GOVERNMENT	TECHNOLOGY	INTERACTION	CUSTOMERS	SOCIETY
Social					
Economic					
Environmental					
Transitional					

EGOV POLICY CYCLE



PLANNING	DESIGN	IMPLEMENTATION	OPERATIONS
Law and regulations Strategy development Strategy alignment Funding arrangements Readiness assessment Policy development Action plans Partner management Stakeholder Leadership Coordination	Interoperability Enterprise architecture Standards Best practices Agency collaboration Information-sharing One-stop government Connected governance Agile government Multi-channel delivery Innovation system	Acquisition Procurement Technical infrastructure Electronic public services Service middleware Services and applications Negotiation and contracts New technology adoption Project management Program management Organizational change	Service agreements Monitoring Software maintenance Adoption and scale-up Access and accessibility Digital content Digital rights Digital divide Benefit management Risk management Performance mgt.
MONITORING, EVALUATION, INSTITUTIONALIZATION			
Measurement	Evaluation	Capacity Building	Knowledge management

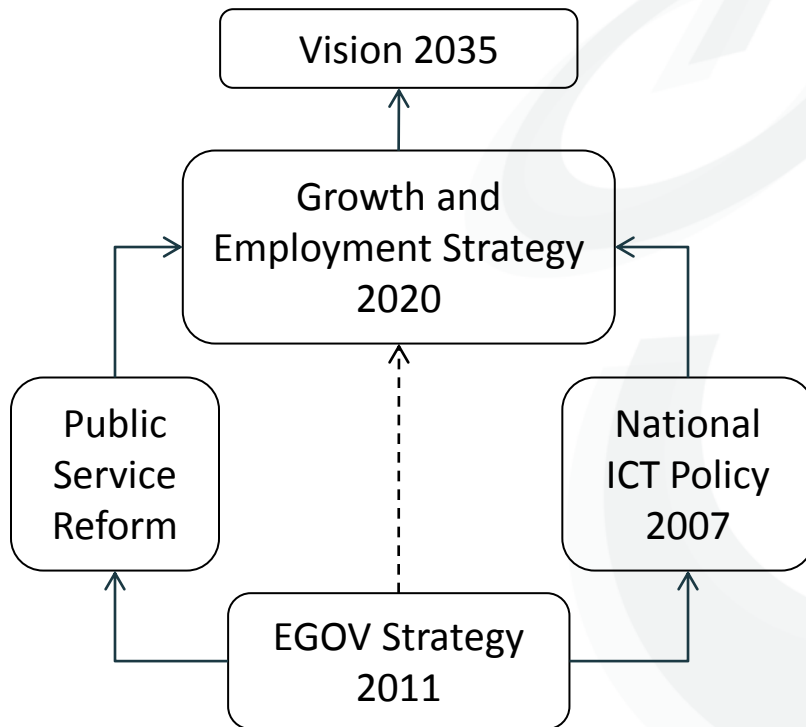
EXAMPLE – EGOV.* DEVELOPMENT FRAMEWORK



NAME	EGOV4D Development Framework (EGOV.*)																				
CONTEXT	Public Administration (PA); national, provincial or municipal level																				
GOALS	<ul style="list-style-type: none"> ○ Establish the state of readiness for EGOV4D in the PA ○ Develop a government-wide strategy towards EGOV4D in the PA ○ Construct a program for PA and its partners to implement the strategy ○ Build capacity of the PA and partners to be able to execute/benefit from the program ○ Establish and sustain research and innovation 																				
ELEMENTS	<table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="background-color: #cccccc;">ASSESSMENT</td> <td></td> <td></td> <td rowspan="3" style="background-color: #cccccc;">EXECUTION</td> </tr> <tr> <td></td> <td style="background-color: #cccccc;">STRATEGY</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="background-color: #cccccc;">PROGRAM</td> </tr> <tr> <td colspan="4" style="background-color: #cccccc;">RESEARCH AND INNOVATION</td> </tr> <tr> <td colspan="4" style="background-color: #cccccc;">CAPACITY AND COMMUNITY BUILDING</td> </tr> </table>			ASSESSMENT			EXECUTION		STRATEGY				PROGRAM	RESEARCH AND INNOVATION				CAPACITY AND COMMUNITY BUILDING			
ASSESSMENT			EXECUTION																		
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APPROACH	Develop various elements of the framework and supporting methods and software tools through research, and evolve them through individual country experiences.																				

EXAMPLE – EGOV.CM PROJECT EXPERIENCE

Cameroon policy context



Lessons learnt

Lower levels of governments are low priority

National agencies prefer to invest at the central level for visibility, creating increasing divide within the countries.

Fragmented Stewardship

EGOV rests with IT agencies but implementation suffers from shared stewardship with related powerful ministries

Academia-Government Collaboration is Necessary

Engaging local academia in research, education and training significantly improves program sustainability.

Bureaucracy is Pervasive

With authorizations required for every action, project managers cannot decide on basic activities and progress is only assured with direct engagement of agency heads.

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EGOV AT W3C – RELEVANT STANDARDS AND GROUPS



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RELEVANT STANDARDS		RELEVANT GROUPS
LegalXML	Electronic exchange of legal data	Education and outreach
StratML	Strategy markup language	Geolocation
EML	Election markup language	Government Linked Data
EDXL	Emergency data exchange language	HTML
SPML	Service provisioning markup language	Internationalization Core
SAML	Security assertion markup language	Points of Interest
NIEM	National information exchange model	RDF
OVAL	Open Vulnerability and Assessment	Research and Development
GML	Geography Markup Language	Web Services Policy
HR-XML	Human Resources XML	Web Accessibility Initiative
<i>[OASIS, etc.]</i>		<i>[Jeanne Holm, 25 January 2012]</i>

EGOV AT W3C – DISCUSSIONS AND FOCAL AREAS



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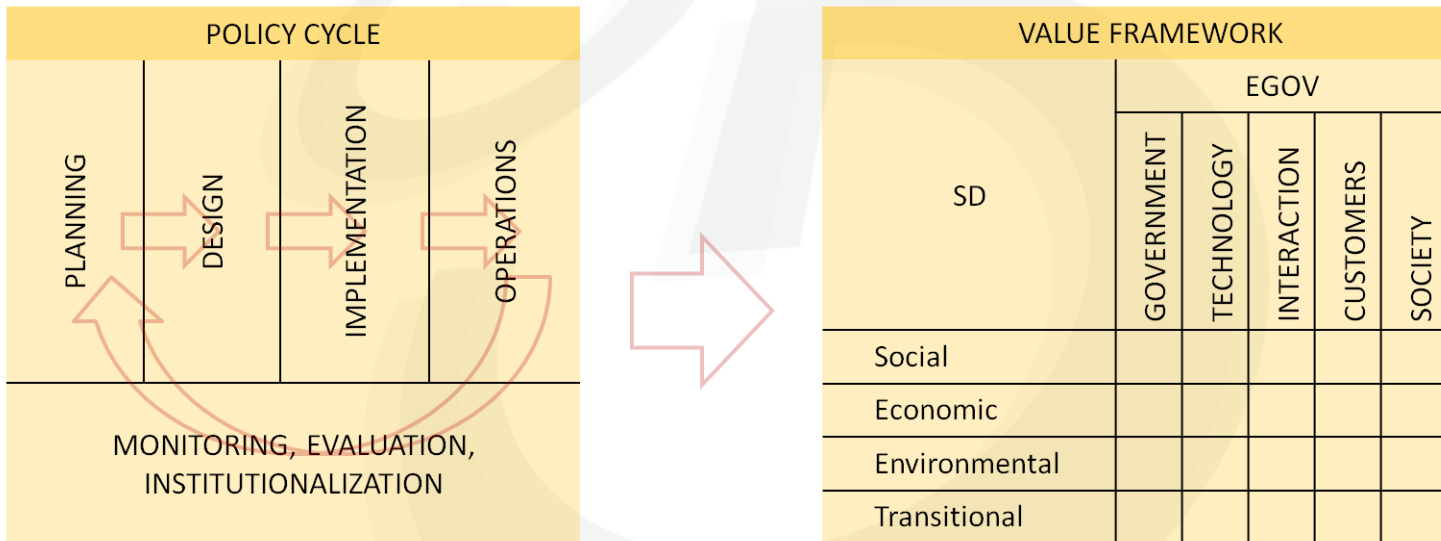
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EXISTING DISCUSSIONS	FOCAL AREAS
IT procurement	EGOV policies
Platforms for open data	Government data
Licensing	Open government
Country branding	Accessibility of EGOV services
Gender mainstreaming	Social media
Community directory	Community directory and resources
Twitter use by elected officials	Education and outreach
Social media	Data licensing
Linked data management	Cloud computing
GIS data	Security and privacy
Meta data management for open data	Library of shared EGOV artefacts
<i>[W3C EGOV IG Archives]</i>	<i>[Jeanne Holm, 25 January 2012]</i>

POLICY-DRIVEN EGOV DEVELOPMENT AND W3C

How to organize existing standards, interest groups, discussions and focal areas with respect to each other and the larger policy context? By relating them to the policy-driven EGOV?



POLICY-DRIVEN EGOV DEVELOPMENT AND W3C

How to organize existing standards, interest groups, discussions and focal areas with respect to each other and the larger policy context? By relating them to the policy-driven EGOV?

PLANNING	DESIGN	IMPLEMENTATION	OPERATIONS
Law and regulations	Interoperability	Acquisition	Service agreements
Strategy development	Enterprise architecture	Procurement	Monitoring
Strategy alignment	Standards	Technical infrastructure	Software maintenance
Funding arrangements	Best practices	Electronic public services	Adoption and scale-up
Readiness assessment	Agency collaboration	Service middleware	Access and accessibility
Policy development	Information-sharing	Services and applications	Digital content
Action plans	One-stop government	Negotiation and contracts	Digital rights
Partner management	Connected governance	New technology adoption	Digital divide
Stakeholder	Agile government	Project management	Benefit management
Leadership	Multi-channel delivery	Program management	Risk management
Coordination	Innovation system	Organizational change	Performance mgt.
MONITORING, EVALUATION, INSTITUTIONALIZATION			
Measurement	Evaluation	Capacity Building	Knowledge management

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CONCLUSIONS

What was presented?

1. Evolution of public sector ICT towards policy-driven EGOV
2. A case in policy-driven EGOV – EGOV for Sustainable Development
3. Policy-driven EGOV development framework

Discussion:

Can the framework serve as a possible policy-context for EGOV at W3C?



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Questions, comments?

Tomasz Janowski

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