The SONNETS Innovation Identification Framework

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Vision and Innovation Identification Perspectives

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(I)

Innovation *in* the public sector with internal or external focus

(II)

Innovation *through* the public sector – with focus on other policy domains
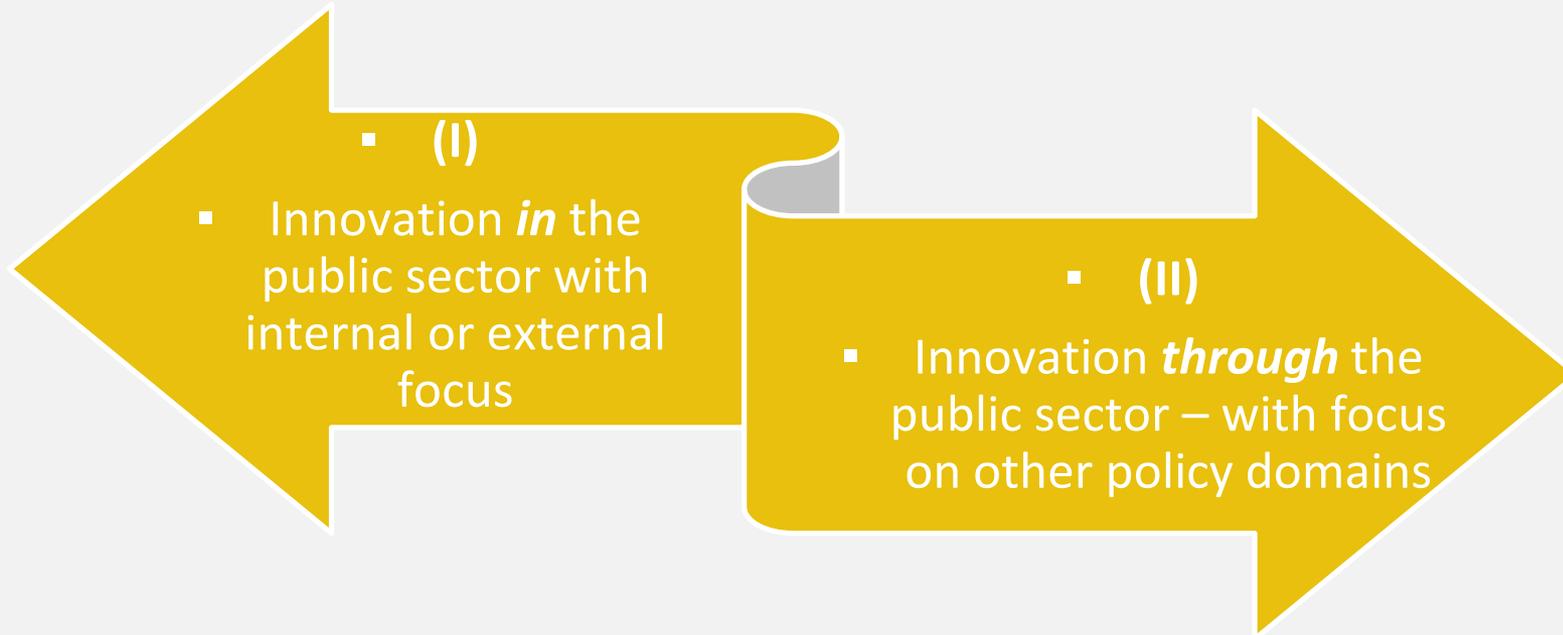
PS Modernization

PS as an Innovation Driver

Stakeholders affected

The Public Sector

The Business/Private Sector

The General Public

Framework at a Glance

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A tool for Public Sector organisations to understand their technology-related position, environment and decide actions that will create innovation

Validation

Scenario Building

Innovation Identification

Technology Assessment

Technology Selection & Analysis

Technology Identification

Needs Identification

Framework at a Glance

Needs Identification

List of Societal Needs

Identify societal challenges and public sector needs

TRUST EQUALITY FREEDOM HOPE PEACE JUSTICE RULE OF LAW DIGNITY PROSPERITY

Framework at a Glance

Technology Identification

Long list of technologies

Identify emerging ICTs and trends that make a difference today in other domains and sectors

Framework at a Glance

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Refine the long list of technologies.
Record the basic idea behind each technology.
Document the identified technologies' characteristics.

Short list of technologies

Compendium of technologies and trends

Identifier: a unique identifier of the technology / trend addressed.
Type: an indication of whether a technology is a self-standing one or has resulted from the technological convergence of other fields.
Description: a brief description of the scope, aims and usage of the technology /trend addressed.
Mainstream Domains of Application: the application domains in which a technology / trend is basically met.
Related Market Potential / Forecasted Growth: quantitative (statistic) or qualitative information on the anticipated growth and spread of the technology / trend addressed or the potential and growth of the related market.
Related Terms: a list of similar terms used to describe the particular technology / trend or to denote specific aspects of it, and that can be employed to collect further information.
Source(s): a reference to the source(s) drawing attention to or pointing out the particular technology/trend as an important one for the years to come.

Framework at a Glance

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Technology Assessment

Technology SWOT Analysis

"Strengths" and "Weaknesses" of the specific technology / trend in the domains originally met - "Opportunities" and "Threats" for adoption and usage by the public sector or other policy domains.

Identify the impact of the technologies in the given domains.
Map technologies to identified needs.
Identify innovation solutions and interlink these with technologies.

Draft list of potential innovation solutions
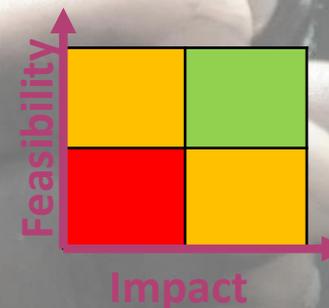
Linkage with Societal Needs

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Innovation Potential Records

Provide a structured way to note down and assess the innovation potential of proposed ICT solutions to identified needs

Envisaged Innovation Action or Envisaged Technology Application *(type of innovation)*			Impact Assessment -Horizontal Dimensions		
			Extent of Application	Influence	
				Type of Influence	Quality of Influence
Impact Assessment - Vertical Dimensions (Scope of Application)	(I)	Institutional/ Capacity Development	*National*	*Direct*	*Positive*
		Political	*National*	*Indirect*	*Positive*
	(II)	Economical	-	-	
		Social	-	-	
		Infrastructural	-	-	
		Environmental	-	-	

Feasibility

Impact

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Framework at a Glance

Scenario Building

Future Scenarios

Develop hypothetic future scenarios.
Select the solutions that make more sense to be ported into the public sector.

I. Public Sector Role
✓ Innovation Leader
✓ Open Innovation Evangelist
✓ Innovation Facilitator

II. Urgency of Societal Needs
✓ Prosperity
✓ Stability
✓ Scarcity

III. Degree of Power Concentration
✓ Centralised Governance
✓ Hybrid Decision Structures
✓ Federated Decision Systems

IV. Operations & Decision Making
✓ Machine Intelligence
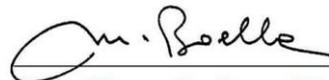✓ Knowledge based
✓ Crowd Wisdom

Framework at a Glance

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Validation

Validated list of technologies & selected solutions

Obtain feedback. Evaluate and revise the results.

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