

NESSI-Grid SRA v2.5 Questionnaire

The Service Oriented Infrastructure NESSI Working Group (www.SOI-NWG.org) is defining the NESSI Strategic Research Agenda on new generation of ITC infrastructures (NESSI-Grid SRA). In this context, business Grid is envisioned as the adaptive service-oriented utility infrastructure for business applications, which will become the general ICT backbone in future service oriented economies. The aim of this questionnaire is to collect feedback from **experts in the Grid community** on:

- Expected economy impact and adoption timeline of the **business scenarios**, defined in Section 3
- Values of the **business indicators** to assess current market situation in Section 7
- Perceived complexity, relevance and urgency of the **research challenges**, defined in Section 5

This questionnaire only includes closed questions; please refer to the contribution form if you want to submit changes or new contents for the SRA. Although you are invited to complete the three questions, questions 1 and 2 are mainly aimed at members from Industry. **Please complete the form from your organization perspective.**

CONTRIBUTOR

Name:	
Project (if participating in any European project):	
Organization:	Business sector: <input type="checkbox"/> Academic <input type="checkbox"/> Industry
E-mail:	

1. BUSINESS SCENARIOS. Indicate the expected economy impact on the European Economy and the adoption timeline of the business scenarios (described in Section 3 in SRA. You are invited to tick more than one timeline option. The first one marks the start of the adoption of the business scenario and the last one marks the time when the scenario is expected to reach a wide adoption or mainstream status (relative to its predicted overall impact).

Business Scenario	Expected impact on the European Economy	Adoption Timeline
Enterprise	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Hierarchical enterprise	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Hosting	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Extended enterprise	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Dynamic Outsourcing	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Mergers & acquisitions	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Virtual organisations	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Value networks	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Mega Services	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long

2. BUSINESS INDICATORS. Please assess the current market situation by rating the proposed **business indicators** (Section 7 in SRA), in a qualitative way, according to your perception on the value you guess the indicator has compared to the value it should have if business grid had an adoption that satisfy market demands. **Example:** if you feel that today there should be more Publications about grid according to the need you have, then tick "Below" Expectations. "Not valid" means that you do not provide a value because the indicator is not valid as metric to evaluate the use of Grid technology in business.

Business Indicator	Value of the Indicator (Expectations)
Adoption Dynamics	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Emergence of New Vendors	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Interest from Current Vendors	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Emergence of new Grid Middleware products	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Behaviour of Big Companies	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Standards and Ontology Resources	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Emergence of New Consulting Companies	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Emergence of New Applications, Services...	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Publications	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Seminars and Conferences	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Analyst and Media Attention	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Amount of Grid-enabled Applications	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Evolution of Users	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Evolution of Related Technologies	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Usage of Common Platforms	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
Emergence of New Business Models	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid
New Application Areas for Grid Technology	<input type="checkbox"/> +: exceed <input type="checkbox"/> 0: meet <input type="checkbox"/> -: below <input type="checkbox"/> Not Valid

3. RESEARCH CHALLENGES. Indicate the perceived complexity, and the relevance and urgency of the research challenges to meet the requirements from the Business Scenarios (Section 5 in SRA)

Research Challenge	Perceived Complexity	Relevance	Urgency
Data Management			
Scalable Data Management	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Low Latency Geo Data ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Autonomic Data ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Applications Development			
Automatic Parallelism	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Mobile Application ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Automatisms Distributed ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Network Connectivity			
End-to-end Application...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Heterogeneous Networks	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Support for Mobility	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Adaptive Middleware	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Accounting and SLAs			
Transparent accounting	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Holistic SLA Management	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Dependability			
Holistic Self Healing	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Cost awareness	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Mobile Dependability	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Security			
Isolating security zones	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Enforcement and brokering...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Identity management	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Reputation and trust manag...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Performance			
Predictable virtualization	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Integrated Scheduling	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Performance prediction	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Resource management	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Interoperability			
Interoperability Standards ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Composition of multi-tiers ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Dynamic interoperability	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Non-functional ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Manageability			
Consider business impact...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Management of new devs...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Virtualization all resource...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Control&Monitoring...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Resource Management...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Mediation and Conflict...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Self Management	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Governance			
Governance Specifications	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Policies Monitoring and ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Policies Translation	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Flexibility			
Support Unanticipated...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Autonomic Support	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Large Levels of Scalability	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Dynamic Resources Alloc...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Large Scale Flexible...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Dynamic Environment Sec...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Mastering Complex Systems			
Holistic System Modelling	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Flexible Simulation	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Integrated Tools	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Overarching Challenges			
Direct contribution ...	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Reduction of the complexity	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long
Architecture driven solutions	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Short <input type="checkbox"/> Medium <input type="checkbox"/> Long

Thank you for participating in this survey. Your feedback is important in helping us improve versions of the SRA