

Position Statement

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Abstract

Risk Visibility is a common challenge across domain verticals. Our aim is to contribute to the development of a future internet core platform for a smart city where risk is transparent: risk visibility is high and the infrastructure and the mean to prevent risk are accessible to all. Many risk visibility use case scenarios and pilots could be drawn across domain verticals. A public private partnership model will be developed to address the challenge of risk mediation, access, governance, and prevention. Technology is an enabler but the partnership has full governance over the state of risk. In developing the future internet core platform, we suggest to establish a balance between simplicity and power. Simplicity will facilitate the export of the smart city model to the world and power will ensure novelty and efficiency. Our suggested smart city model is intended to promote social cohesion and reduce the digital divide. It leverages latest breakthrough / advances in converged ICT and media to adapt and contextualize risk visibility and prevention across domain verticals.

I. Use Case Scenarios

Various “Risk Visibility” use case scenarios and pilots could be drawn across domain verticals:

In healthcare, the focus could be on the deployment of converged ICT and media to promote preventive healthcare and active life style. This would reduce health problems and risk. Converged ICT and media can be leveraged to develop preventive healthcare services at a global level. This would involve:

- meta-modelling of personalized patient-centred services;
- supporting the collaborative authoring of interactive preventive healthcare digital content;
- developing novel paradigms of interaction among patients, global healthcare team, global healthcare network, and the healthcare industry in order to promote preventive healthcare;
- developing design models for products and services to promote preventive healthcare at a global level.

In the financial sector, we could address the problem of risk visibility and mediation. The urgent economic problem, linked to the financial crisis, challenges current research and technological development. The scale of the fiscal crisis that undermined the credibility of the financial system motivates the consideration of “Global Financial State Visibility” as a key global challenge that validates research and technological development activities to support the engineering dynamics of automatically adaptable software services along the “global financial supply chain”. Our aim is to align the prevalent thinking in terms of mediating risk using reports to mediating the state of risk as a service. Various entities including policy makers, regulators, auditors, accountants, investors, consumers, suppliers, producers, and individuals need to access and govern Financial Risk Visibility Services depending on Service Level Agreements. Financial state could be conveyed in various ways by providing a greater perception of the state of: financial risk; financial events; financial activity; financial system; and the regulatory framework.

In the public sector, we could address the challenge of the transparency and efficiency of the workflow of policy generation and mediation. The aim is to support participative policy modelling involving various target groups. Various approaches for policy development could be

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considered. These include: (1) Analytical and political approaches taking into account the analytical and political dimension of the policy process and the importance of policy communication at an early stage of policy formulation; (2) Cognitive maps taking the form of a set of connected options-outcomes chains; (3) Computer assisted approaches to scenario discovery involving the support of policy-makers and analysts in identifying policy-relevant scenarios by interactively applying statistical and data mining algorithms to large databases of simulation-model results.

In the business sector registers stores huge amount of information about companies and businesses. With the economic slowdown, new access models for the business registers need to be developed in order to increase the transparency of the performance of the business enterprise.

In transport, the focus could be on the exploration of the use of augmented and virtual reality coupled with live video streaming to monitor and control risk of vehicle accidents.

II. Innovative Internet Functionalities and Technologies

Latest advances in Converged ICT and media could be leveraged to increase risk visibility across domain verticals. The aim is to adapt and contextualize risk visibility and prevention across domain verticals. We intend to deliver progress beyond state of the art in the use and development of technologies delivered by framework programme 6 and 7 projects. We address the risk visibility challenge from various dimensions:

- *Domain dimension (Ontology)*
- *Interoperability dimension* (instant access to risk visibility via various converged ICT and media devices)
- *Global Dimension* (geographical, cultural). Service software wrappers could be developed to adapt risk visibility services to a global context on demand (automatic adaptation).
- *Governance dimension* (the shift from "Data Governance" to "Service Governance")

III. Future Internet Core Platform Functionalities

Our aim is to support the development of a future internet core platform model that establishes a balance between simplicity and power. Risk Visibility across domain verticals is a global challenge. Simplicity will facilitate the export of our future internet core platform model to the world and power will ensure novelty and efficiency. The aim is to devise standards for technology use and deployments to support social cohesion and reduce the digital divide.

IV. Experimentation Environment

Accessibility for all is key priority. Hence the suggested experimentation environment needs to engage a diverse community from the private and public sector across domain verticals.

V. Role in the FI-PPP initiative

We envisage a partnership role in the development of the Technology foundation - Future Internet Core Platform; in Capacity Building and Infrastructure Support; and in use case Use Case scenarios and pilots experimentation.