Smart Agri-Food Implementation Planning (WP600)

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Background and aims

The agri-food use case in the development of Future Internet (FI) is an ideal scenario, providing both the requirements for a tighter integration with advanced Internet-based network and service capabilities as well as an innovative application scenario with possibly one of the highest social and economic impacts. The main pillars in phase 1 to accompany the specification of platform requirements and to substantially prepare the large scale experimentation are the Community Involvement and the Core Platform Collaboration, as presented in the following Figure 1.

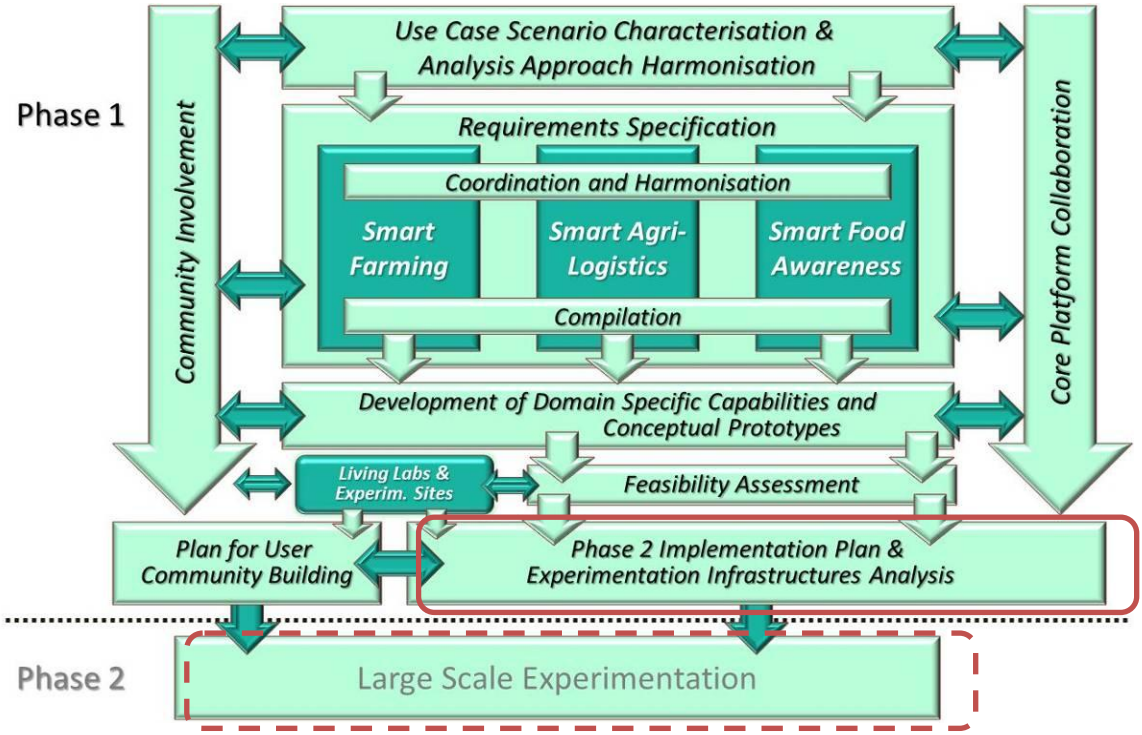

Figure 1 Overall Strategy of Smart Agri-Food for Phase 1 (the focus of WP600 is red encircled).

For phase 1, the agri-food use case includes three areas necessary to demonstrate the overall feasibility of the approach to be suggested for Phase 2. For large-scale experimentation, it is essential to further detail and harmonise a joint approach that will be followed for the requirements specification and Implementation Planning. The aim of work package 600 is to develop an implementation plan for phase 2..

Towards an integrated and open system from farm to fork

The implementation plan will be developed for the ideal scenario which is an integrated and open system from farm to fork. It must ensure the availability of the necessary test infrastructure for the early trials in terms of SME participation as

application and service developers and infrastructure integration across Europe. For this purpose, a detailed analysis of the potential experimentation infrastructures and a plan for user community building are needed, as well as the planning of standardisation.
It would be unrealistic to suppose that the test infrastructure and community for phase 2 can be built up from scratch at the start of phase 2. Hence existing infrastructures and communities are used as much as possible and where needed extended, upgraded or integrated. This is done in three steps:

- First, through the networks and projects in which the consortium beneficiaries are already involved (e.g., the RFID F2F project).
- Secondly, interaction with the core platform (FI-WARE) and other use case scenarios to obtain contacts and information to explore whether the same experimentation infrastructures can be used for more than one use case.
- Thirdly, generic surveys and related networking activities will be executed to explore possibilities for additional infrastructures and networks.

Besides focusing on the test infrastructure and community, the implementation planning also includes the agreement on mechanisms for coordination and harmonisation of work, addressing both the interests of the different stakeholders along the vertical chain (i.e. producers, “processors”, logistic service providers, retailers, consumers) as well as the ways on how to compile the outcomes for their sound technological exploitation by the key stakeholders (i.e. Core Platform, test infrastructures, standardisation bodies, providers of domain specific sub-systems).

Results and current activities

A detailed work plan for the analysis of experimentation infrastructure and the involvement of key players in the agri-food chain for community building has been defined and discussed with the relevant partners. Progress and results from other work packages were taken into account. The current work plan includes the outline of the deliverable D610 and an elaborated planning of actions to be taken in the coming months for this deliverable. At this moment, a conceptual framework is being developed to take stock of and analyse the experimentation infrastructure and to derive a specification for capabilities on infrastructure requirement from WP200-500. Development of work plans for other deliverables (standardisation planning, community building and overall implementation planning) are in progress.
Besides taking stock of the possible infrastructures according to the conceptual framework and the specification, current activities also include identifying possible links with other use cases in the FI-PPP program (e.g., FINEST, ENVIROFI, etc., supported by the INFINITY project) and exploiting websites and social media (LinkedIn, Twitter), as well as exploring possibilities for Living Labs (existing or new) with the guidance from ENoLL.

Significance and benefits

The main contribution of the Implementation Planning is that it makes a synthesis of the results of all other activities and applies an integrative strategy for bridging the gap between the vertical supply chain dimensions (i.e. especially from farm to fork) as well as from technological point of view between the highly required domain-specific capabilities and the potentials for realising Future Internet Core Platform instances. The main added value of the implementation planning for the end users in the large scale experimentation is that it addresses the innovation potentials and wide market impact as highly required by the Smart Agri-Food beneficiaries.