

## KNOWLEDGE MODEL

**S-Cube** is the FP7 SSAIE Network of Excellence in **Service-Based Systems**...

- Complex network-oriented systems in which specific arrangements of people, organizations and technologies take actions to provide value.
- Supply chains, outsourcing models, manufacturing processes, etc.

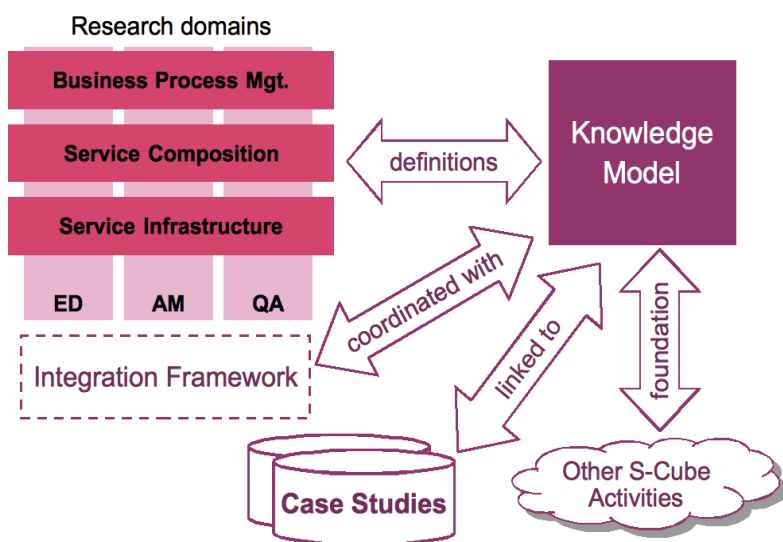
**Service-Based Systems** require an interdisciplinary approach to their study, design, engineering, implementation and management.

**S-Cube** aims to provide the missing conceptual link to unify different disciplines such as distributed systems, cloud computing, autonomic computing, information and knowledge-based systems, business modeling and management, content management and networking.

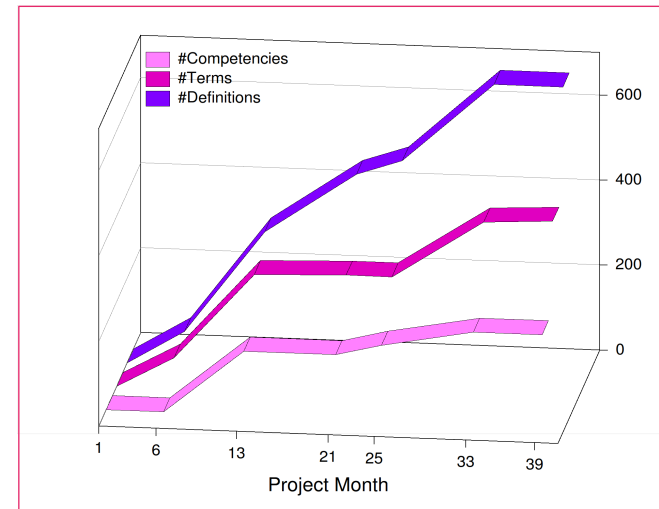
The S-Cube **Knowledge Model** (KM) is a **public** repository of Service-Based Systems knowledge and provides:

1. A single point for the **collection, analysis** and **integration** of knowledge from different research areas and disciplines.
2. A **common vocabulary** to promote the understanding of concepts, terminology and terminology.
3. A method of identifying and cross-correlating **competencies** to (e.g.) proactively identify candidates for the S-Cube **mobility program**.
4. Provide information on **research efforts** and actions to align the **research agendas** of S-Cube partners.

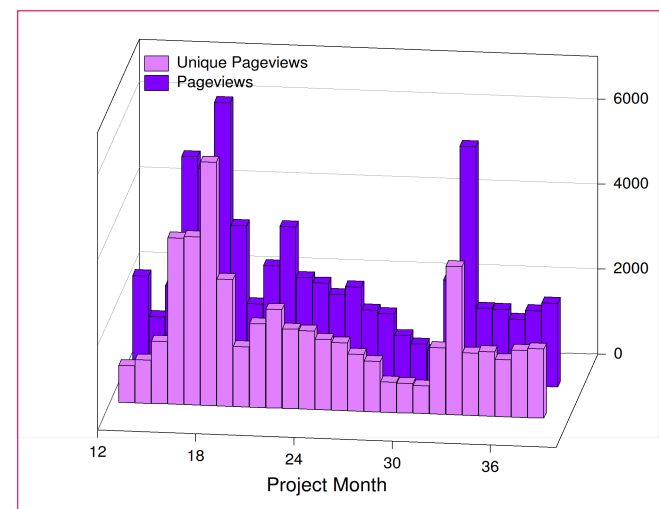
The KM Integrates cross-cutting research in **Service Technologies** and **Service Principles, Techniques & Methodologies** (Engineering & Design, Adaptation & Monitoring and Quality Assurance) with case studies and other S-Cube activities.



**Growth:** As shown below, since the KM was initiated in Month 1 of the S-Cube NoE, there has been a rapid and constant rate of growth in the number of **terms, contextual definitions** (knowledge) and associations to S-Cube partners and associate members (i.e., **competencies**). It now contains over 300 entries of Service-Based Systems knowledge and over 600 individual knowledge items.



**Use:** The KM has become a commonly accepted point of reference, teaching aid and hub for Service-Based Systems activities and receives on average 2000 unique page views per month from places as far afield as the USA, India, China and the Philippines.



**How you can become involved:** The KM is a publicly-accessible and anyone can register to add, edit and comment on existing material. More information is available at <http://www.s-cube-network.eu/km/km-frontpage>.

**Reference:** The S-CUBE Knowledge Model: Experiences in Integrating SSME Research Communities. V. Andrikopoulos, M. Parkin, M. P. Papazoglou, P. Lago. Accepted for International Conference on Knowledge Management & Information Sharing. Paris, October 2011.

**S-Cube** is the Software Services and Systems **Network of Excellence** establishing an integrated, multidisciplinary, vibrant research community to enable Europe to lead the software-services revolution, **helping shape the software-service based Internet**

### At a Glance

**Project Type:** FP7 Network of Excellence  
**Program:** SSAIE  
**Duration:** 01.03.2008 – 29.02.2012  
**Project Coordinator:** Prof. Dr. Klaus Pohl  
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