

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.

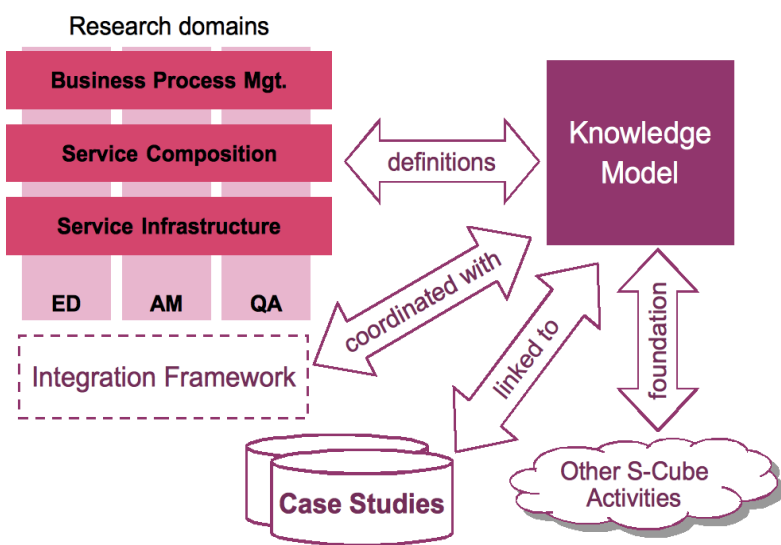
Service-Based Systems require an interdisciplinary approach to their study, design, engineering, implementation and management.

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.

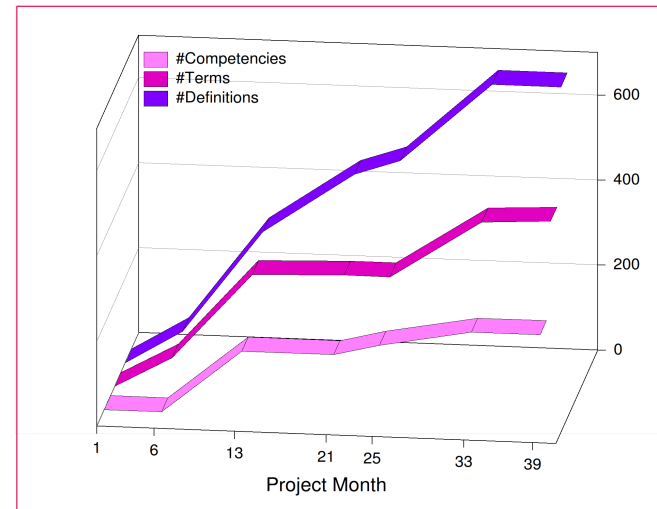
The S-Cube **Knowledge Model** (KM) is a **public** repository of Service-Based Systems knowledge and provides:

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.

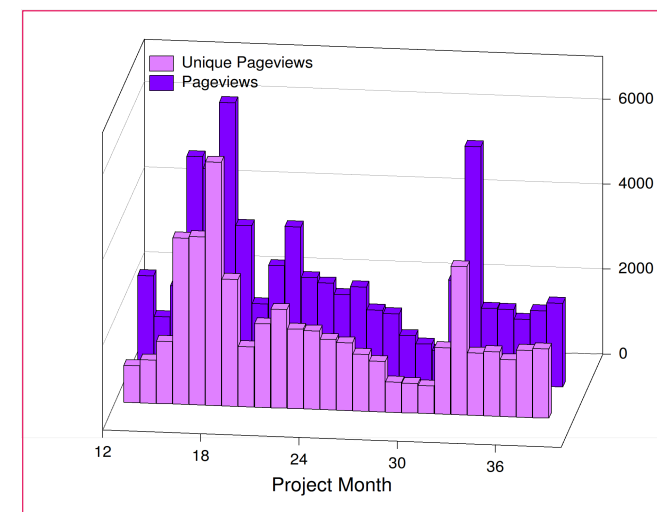
The KM Integrates cross-cutting research in **Service Technologies** and **Service Principles, Techniques & Methodologies** (Engineering & Design, Adaptation & Monitoring and Quality Assurance) with case studies and other S-Cube activities.



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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