



InCoCo-S

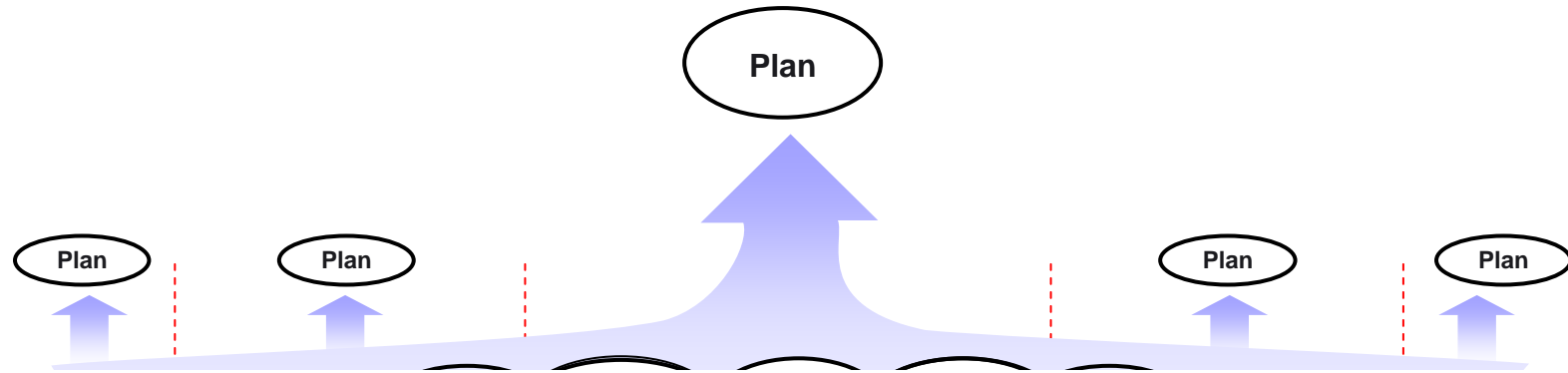
Innovation, Coordination and Collaboration
in Service Driven Manufacturing Supply Chains

Introduction to InCoCo-S

Amit Garg



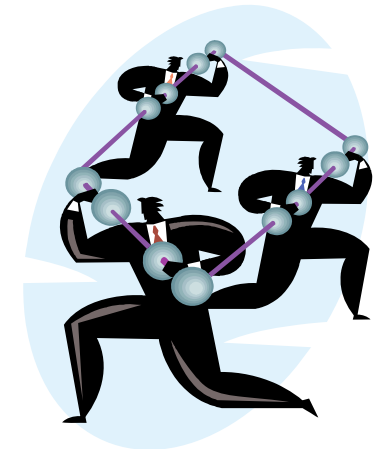
- ★ Top 1: InCoCo-S Vision & Objective
- ★ Top 2: Business Related Services
- ★ Top 3: Business Challenges
- ★ Top 4: Research Challenges
- ★ Top 5: Workpackage Structure
- ★ Top 6: Role of Consortium Members
- ★ Top 7: Project Management
- ★ Top 8: Facts & Figures
- ★ Top 9: ...



InCoCo-S aims to manage this **Interdependency** between the **Manufacturing Supply Chain** and **Service Providers** by developing Service Oriented **S-SCOR** Reference Model

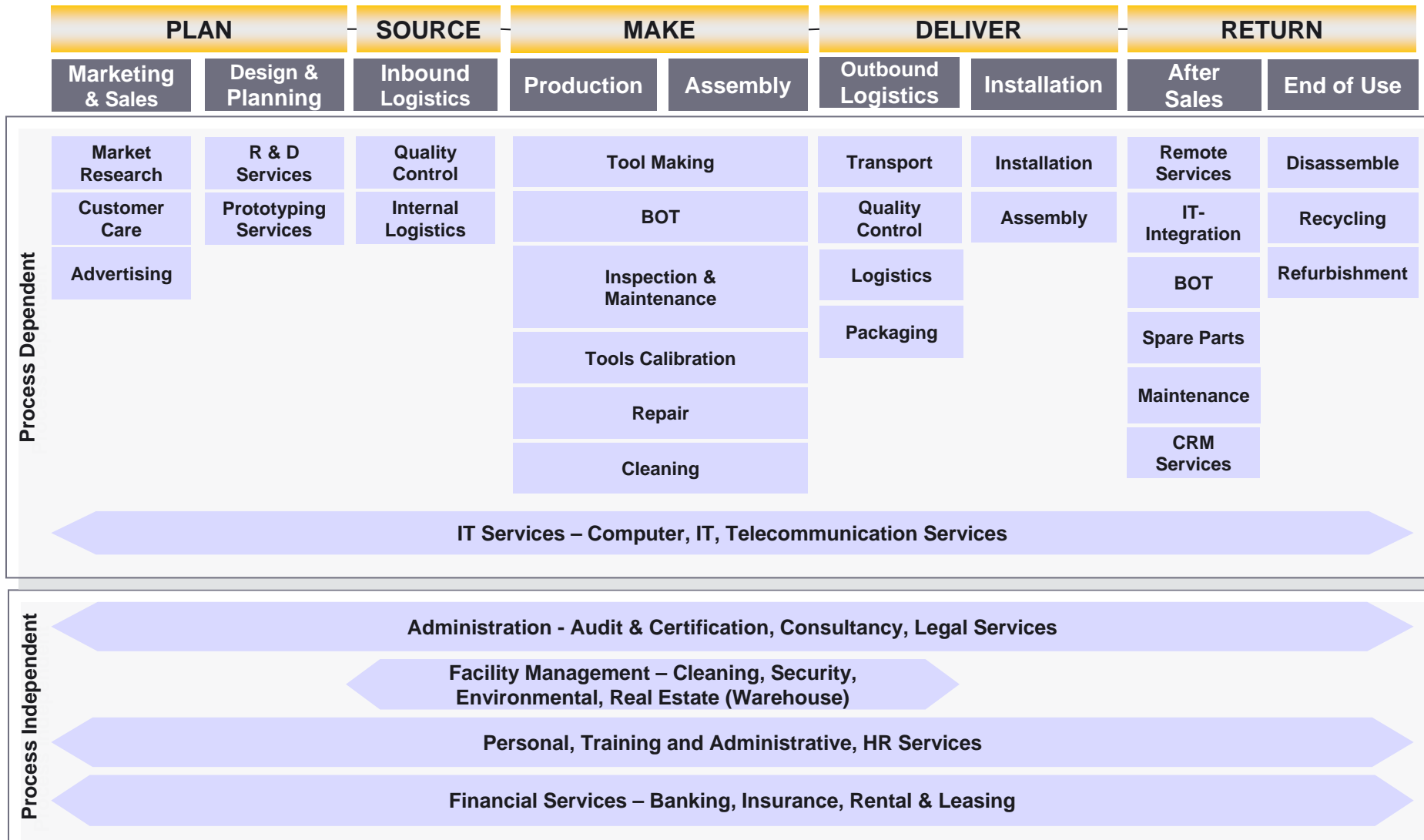


- ❑ Enabling **Coordination** between different user & service provider
- ❑ Developing **Metrics** for measuring performance of service providers
- ❑ Encapsulating the Coordination Mechanisms and Measure of Performance into an integrated **Framework S-SCOR**



To Increase and Sustain the **Overall Performance** and **Competitiveness** of both **Manufacturing Supply Chains** and their **Service Providers**

To provide a **Standardized Framework** of Collaboration and Coordination Processes for the Integration of **BRS - Providers** into Fast and Flexible **Manufacturing Supply Chains** in order to gain a Competitive Advantage.



InCoCo-S

WP 1 – Project Management

Business Case 1

Inbound Logistics & Quality Services

Business Case 2

Synchronize Maintenance Business Processes

Business Case 3

Automatic Analyses with Integrated Monitoring Systems

Business Case 4

Outbound (Quality) Service Offers

WP 2

Specification of business and analysis of requirements

WP 3

Collaboration strategy and coordination mechanism

WP 4

Performance Measurement

WP 5

Evaluation of coordination framework using simulation

WP 6

SCOR model enhancement

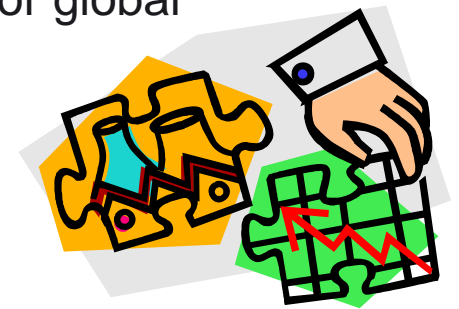
WP 7

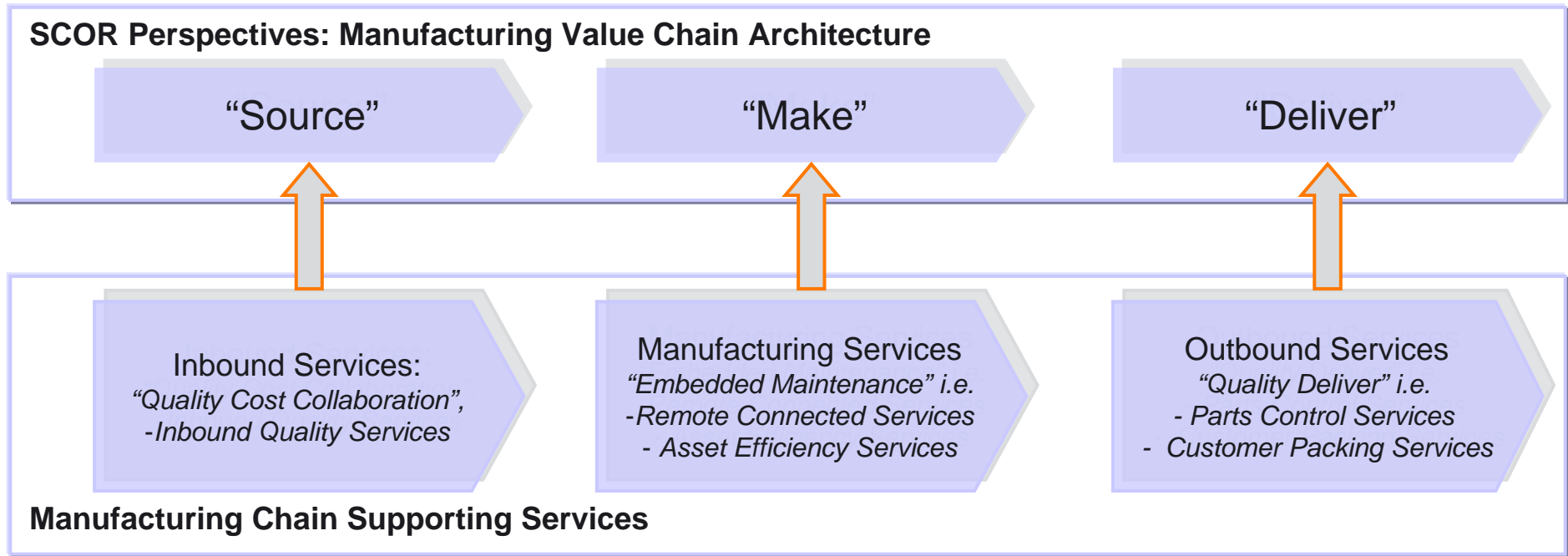
Implementation of information & decision support systems

WP 8

Dissemination, exploitation & training

- For Manufacturing Supply Chains
 - To **integrate** and **synchronize services** from external providers into their existing and continuously evolving supply chains
 - To successfully **measure, control and evaluate the performance** of these joint activities, both at the operational & strategic levels.
- For Supporting Service Companies
 - To **meet service requirements** irrespective of place and time through coordinated and synchronized activities
 - To remain a **reliable, competitive and innovative partner** for global manufacturing organizations in a long term.





BC I “Source” Supporting Services

Sigpack

BC II & III “Make” Supporting Services



BC IV “Deliver” Supporting Services

Sigpack

- ❑ Design new **Coordination Mechanisms** for Service Supply Chain
- ❑ Develop new **Performance Metrics** to measure the performance and impact of Services on SC
- ❑ Enrich **Managerial Decision** making by integrating coordination mechanisms and performance metrics
- ❑ **Integrate & Standardize** the activities, functions, interdependencies, interfaces into **S-SCOR**



- Business Analysis & Requirement Specification
- Metrics for Measuring the Performance of Service Providers

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

- Design of Collaboration Strategies & Coordination Mechanisms



**POLITECNICO
DI MILANO**



- Standardization of S-SCOR Reference Model

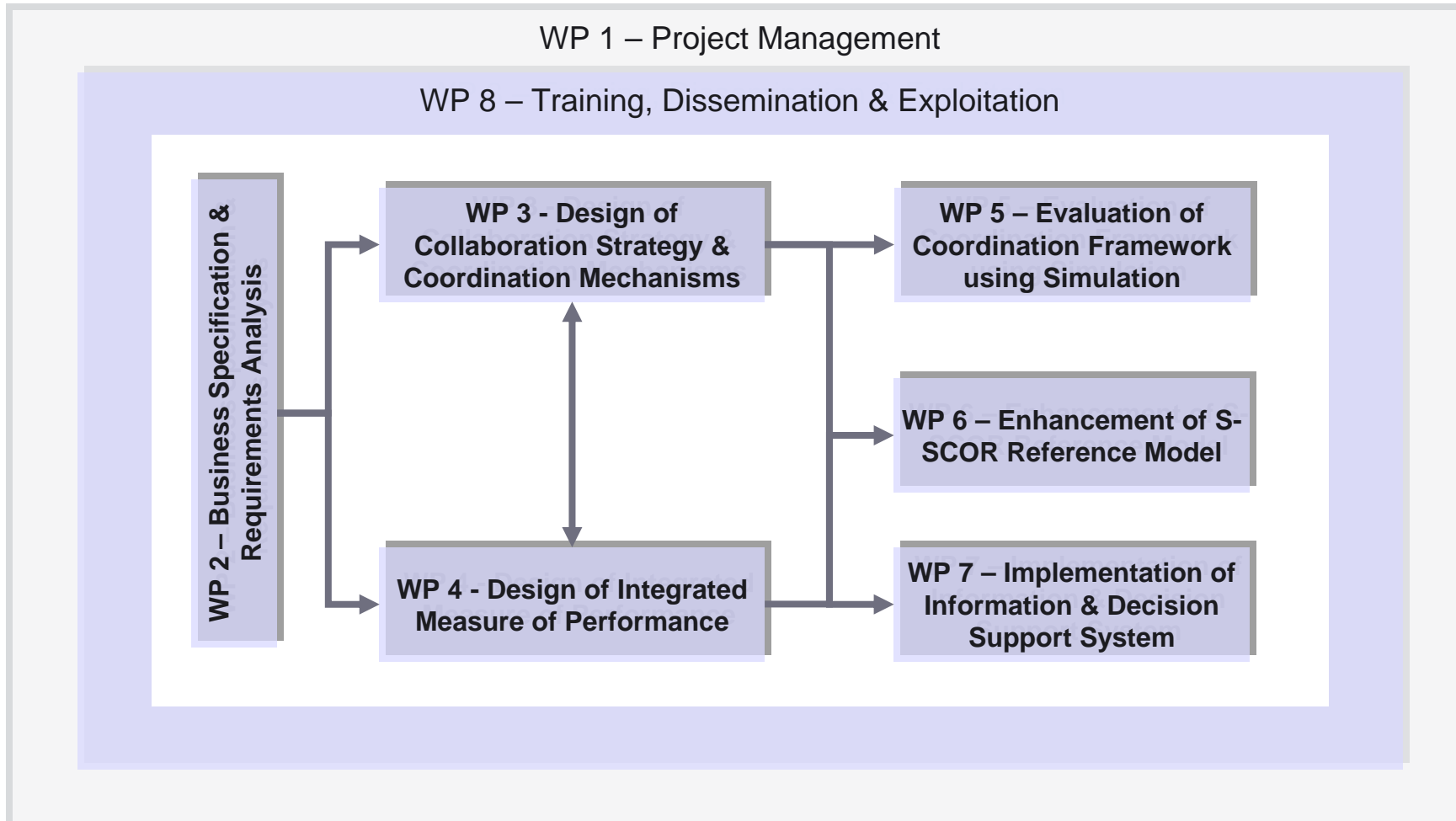


- Development of Negotiation Schemes
- Synchronization of information & planning systems



Universität St Gallen

- Evaluation of Coordination Framework by Empirical Methods
- Development of Simulation Models & Gaming Environment





**Technology
Industries
of Finland**



H₂O
SCORE-cards für Ihr Unternehmen

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Sigpack

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**POLITECNICO
DI MILANO**

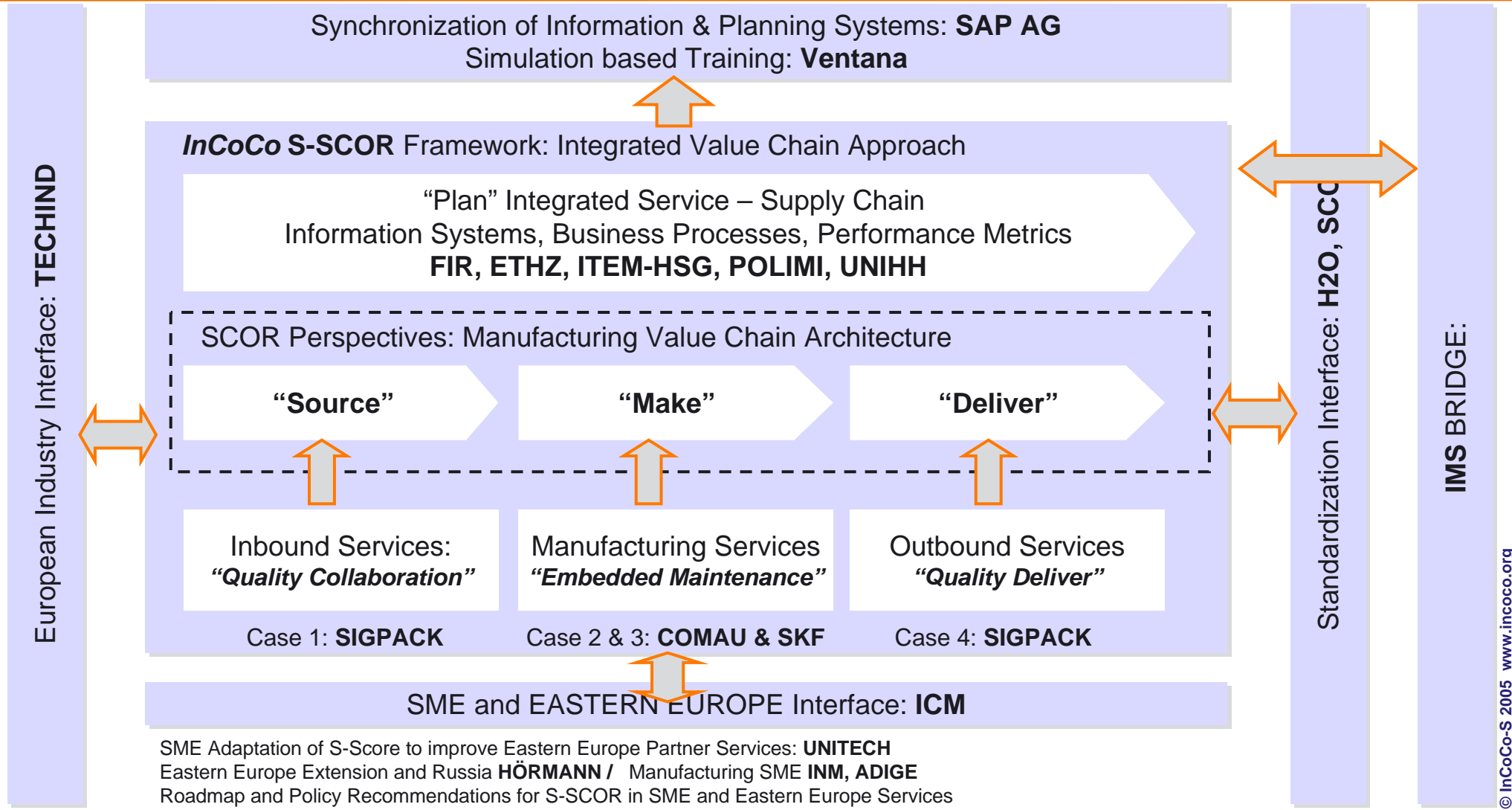


BLM GROUP
ADIGE



Universität St Gallen





- ❑ Start: 1st October 2005
- ❑ Run Time: 30 months
- ❑ Core Participants: 17
 - ❑ 5 Research Institutes (FIR, ETHZ, UNISG, POLIMI, UNIH)
 - ❑ 3 Business Case Industry Partners (SIGPACK, SKF, COMAU)
 - ❑ 1 IT - Supplier (SAP)
 - ❑ 1 Simulation Expert (Ventana)
 - ❑ 2 Industrial Exploitation Partners (ICM, TECHIND)
 - ❑ 4 SME Partners (HÖRMANN, INM, UNITECH, ADIGE)
 - ❑ 1 Standardization body (H2O)

- Submitted in 2nd IST NMP Joint Call
 - on 19th October 2004 at 16.57 Hours



- Received high ranking with a total score of 25.5
 - Approved for a funding of 2.9 Million Euro

- Major Challenges faced during negotiation:
- Contract from EC expected during next weeks
- Consortium Agreement is being currently prepared



Thank you for your attention!



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