

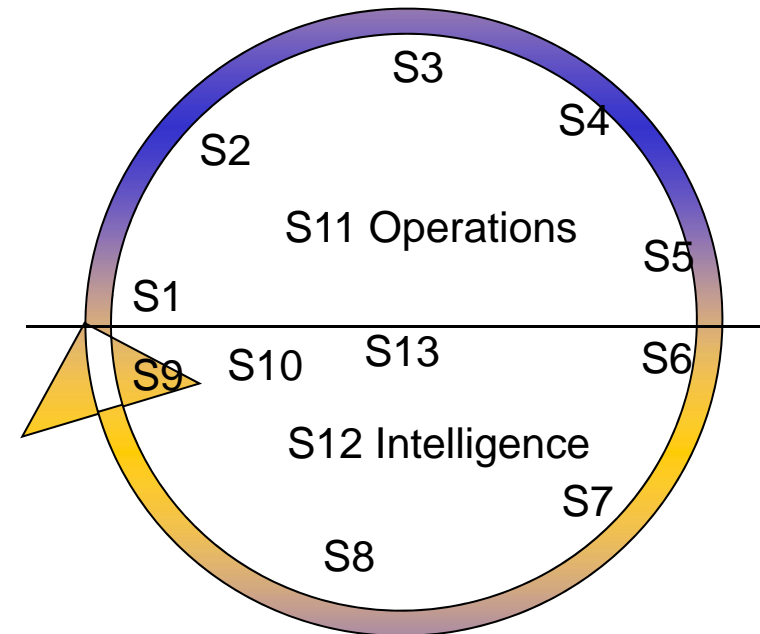
GEM Mapping of Client-Specific Functional and EA
Products to GEM Technology Integration Model and
GEM Methodology Stage

Roy Roebuck

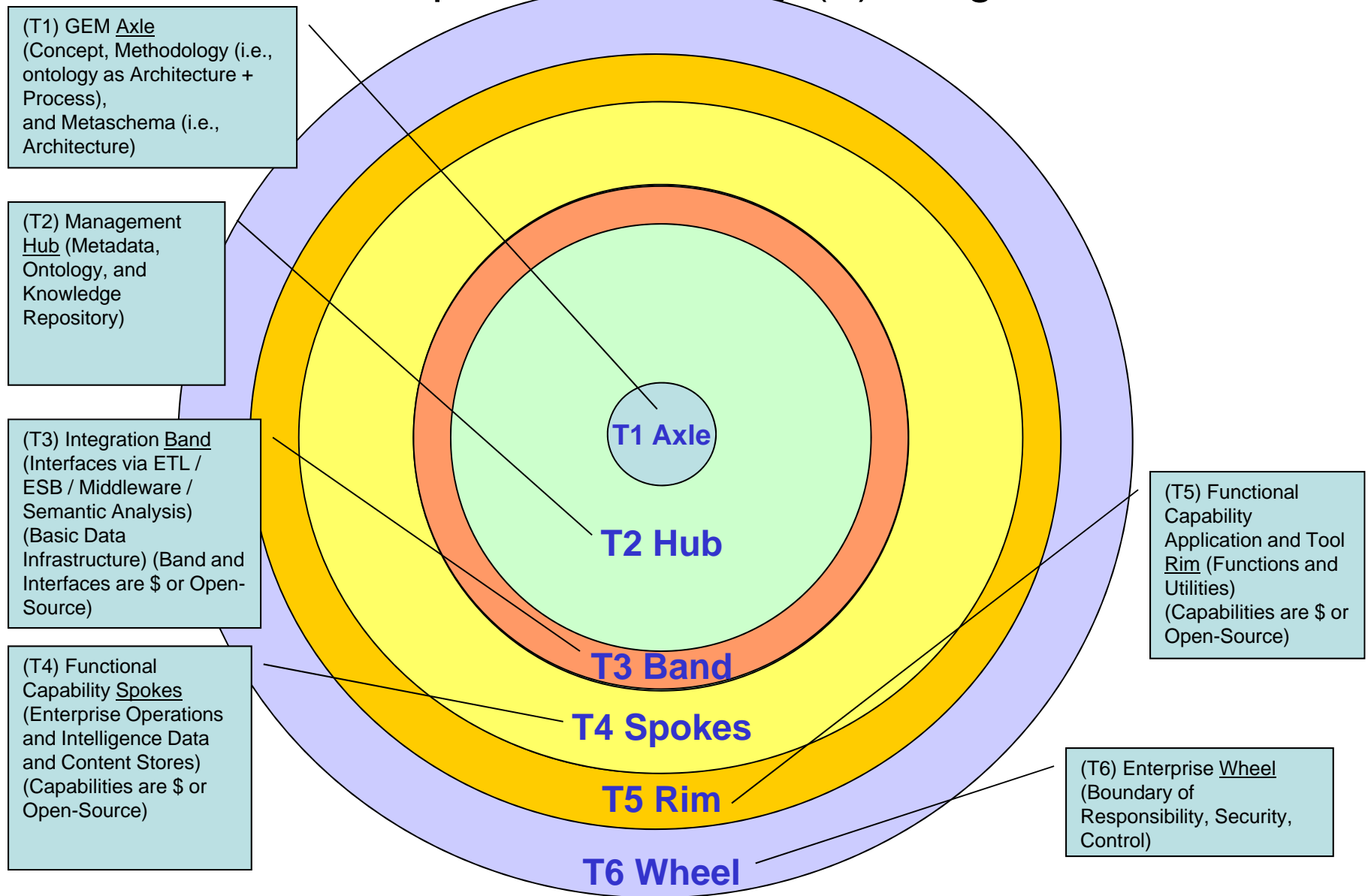
GEM Spiral Methodology for Intelligence-Based Operations and Improvements, Life Cycle Stages

1. Enterprise Strategic Management (e.g., Balanced Scorecard - BSC)
2. Supporting Functional Strategies, Plans, and Performance Measurement (e.g., Staffs, Programs, Projects, Workers)
3. Conduct Functional Operations (i.e., Perform Processes)
4. Create, Update, and Organize Operational Information (i.e., structured, semi-structured, unstructured) Stores
5. Extract, Transform, and Load (ETL) Information Store Content into Analytical Environment (e.g., Data Warehouse) for Business Intelligence (BI such as analysis, reporting, visualization, decision support, and d decision tracking)
6. Conduct **GEM Intelligence Inventory (e.g., GEM Semantic Transformation and Analysis of Information Stores)**
7. **Aggregate Functional and Local Environmental Intelligence into the GEM Management Repository**
8. **Unify (i.e., Integrate, make interoperable, make translatable) Enterprise View**
9. Secure/Align/Improve Operations From an **GEM Unified Enterprise** vantage point
10. Enable **GEM Unified Enterprise** Business Process Management (i.e., Workflow)
11. Operate business processes with **GEM Unified Enterprise Intelligence-based Dynamic Applications using Unified Enterprise and Environment Situational Awareness**
12. **GEM Operations Management Repository with Co-Operation Ontology**
13. **GEM Intelligence Management Repository with Correlation (Unifying) Ontology**

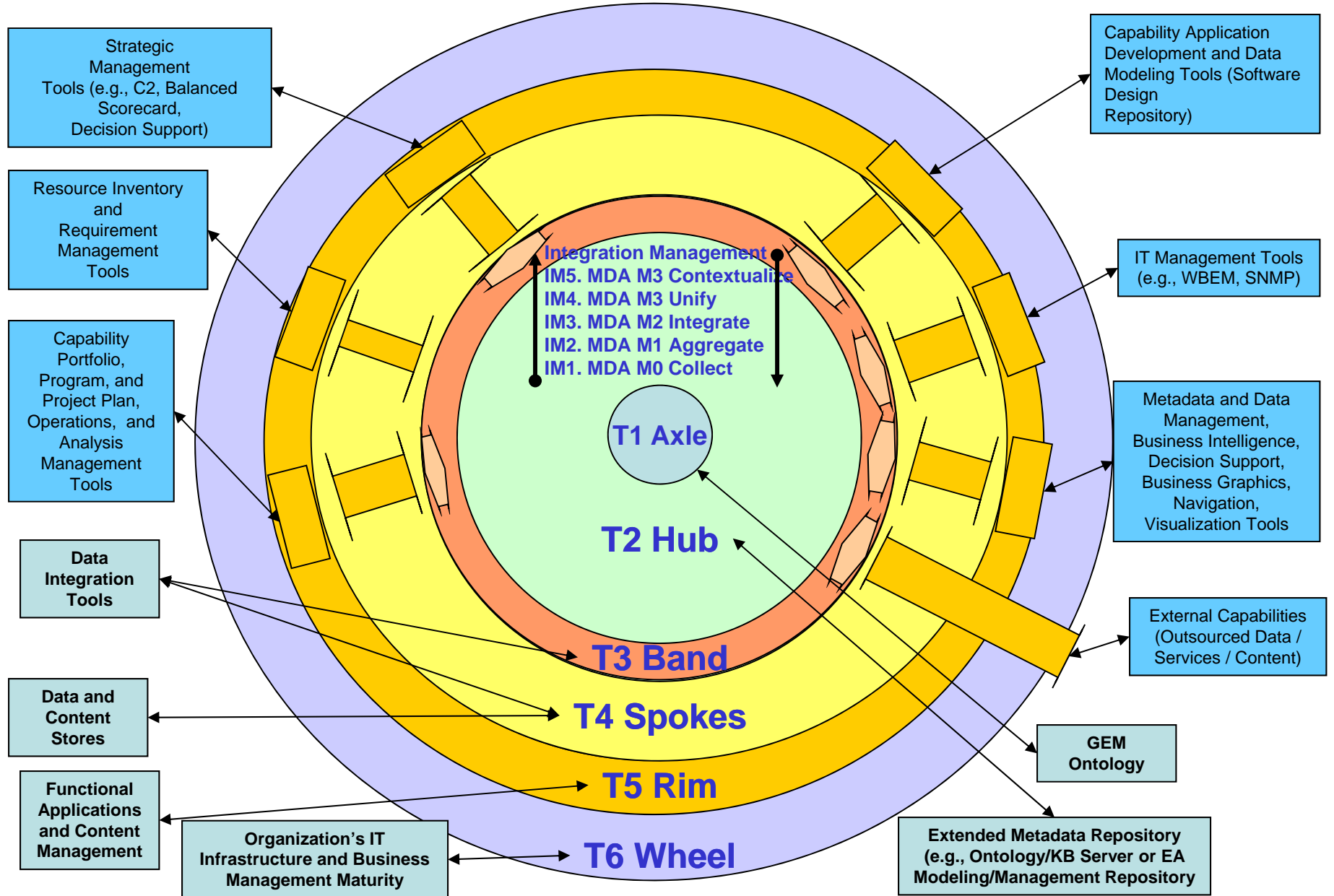
Bold Items are the Added Value of the GEM approach, while non-bold items are common industry best practice.



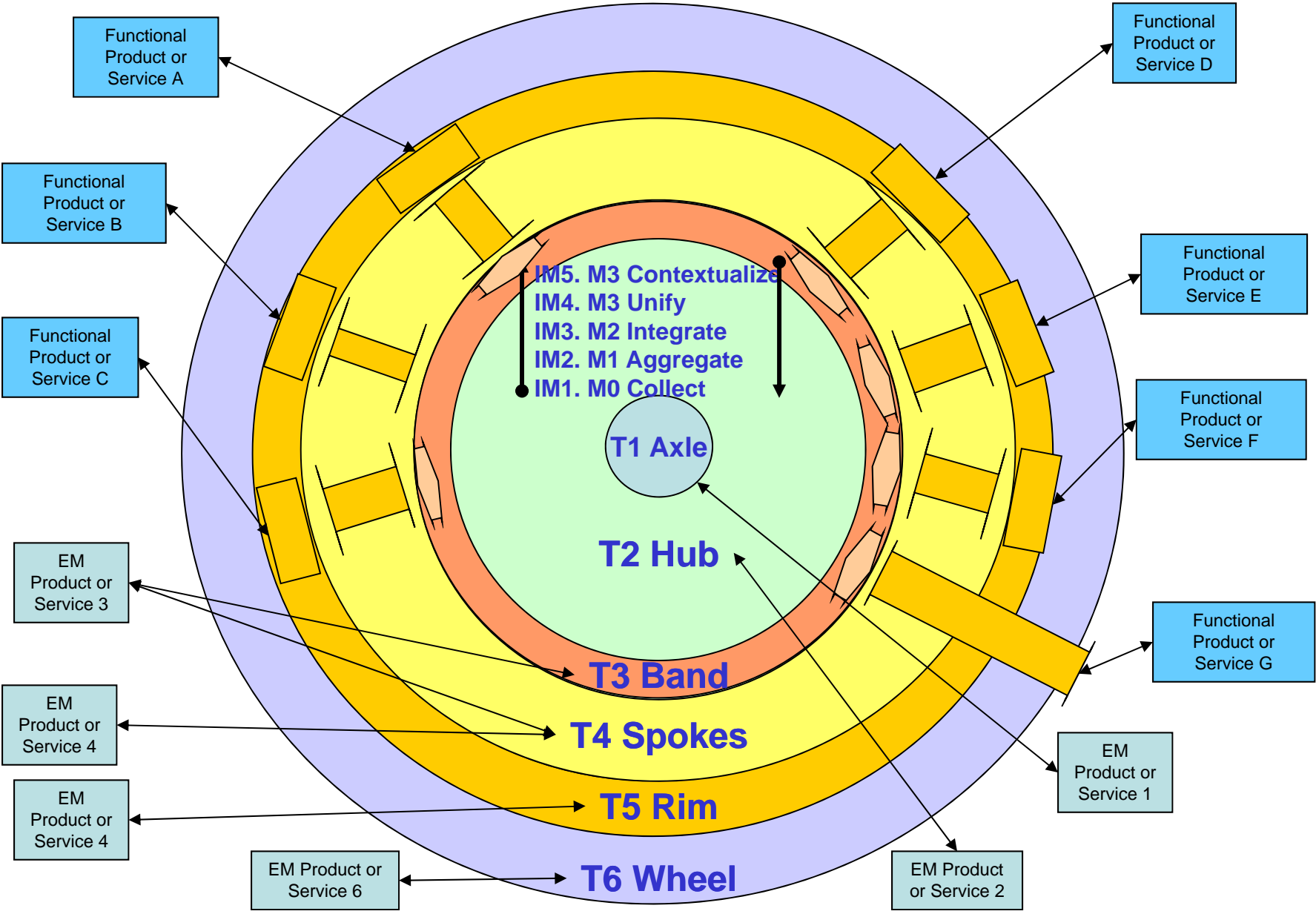
GEM Hub and Spoke Technology (T) Integration Model



GEM Hub and Spoke Technology Integration Model (Integration Examples)

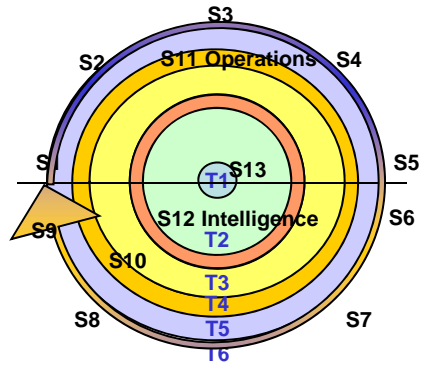


GEM Hub and Spoke Technology Integration Items



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GEM Hub and Spoke Technology Integration Items by Methodology Stage



GEM Implementation Stage	Technology Categories/Standards for GEM	Products or Services for GEM (Client-Specific)
S1. Enterprise Strategic Management (Concurrent, Cooperation)	T5, T6. Balanced Scorecard, Project Management, Executive Management Processes	MS Project 2007 Clients, MS Project 2007 Server
S2. Supporting Strategic Management of Staffs, Portfolios, Programs, Projects, Teams, Workers	T5, T6. Balanced Scorecard, Project Management, Functional Processes	MS Project 2007 Clients, MS Project 2007 Server
S3. Conduct Operations and Improvements (Recurring or Initiative)	T5. Project Management, Functional Processes	MS Project 2007 Clients, MS Project 2007 Server, BPMN Modeling tools, BPMN model exchange and integration tools, GFE Laptops and VPN Access, CMAP Clients and Server, GroupSystems ThinkTank, Amarco Visio Server, NetViz 3D, DecisionPath Foretell
S4. Create, Read, Update, and Delete Operational Data and Content	T3, T4, T5. Databases, Content Stores, Directories, Email, PIM on intranet, extranet, and Internet	MS Office 2007, Sharepoint 2007 Server and Clients, SQL Server 2005 Clients and Servers
S5. Extract, Transform, Load Data into Management Repository or Intermediate Stores	T3, T4. ETL, Data Integration, EII, Data Synchronization, JDBC/ODBC	TIBCO ESB and ETL Tools, Informatica ETL, MS Excel, MS Access, DigDB for Excel, Data Import Wizard 6
S6. Aggregate Content and Conduct GEM Intelligence Inventory and Semantic Analysis (Domain Ontology/Knowledge)	T2, T3. Extended Metadata Repository, Semantic Inventory Tools, Semantic Analysis Tools, ETL/DI/EII Tools	Metis EA Environment, Templates, Modeling Clients, Metaschema Editing Clients. Revelytix MatchIT and Knoodl Intelligence Inventory, maintenance, and modeling tools, Protégé OWL Ontology and KB Clients
S7. Integrate Domain Intelligence (DI) (Normalized Domain Ontology/Knowledge)	T1, T2, T3, T4, T5, T6. Extended Metadata Repository, EA Metaschema and Ontology Editors, Generalizing Ontology, Data Synchronization	GEM Ontology, Stage 6 technologies.
S8. Unify Enterprise Intelligence (UEI) (Enterprise Ontology Knowledge)	T1, T2. EA Metaschema and Ontology Editors, Generalizing Ontology	Stage 7 technologies.
S9. Ongoing UEI KB-based Secured, Aligned, Simulated, and Improved Operations	T1, T2, T3, T4, T5, T6. Enterprise security management, resource/organization optimization, process/decision simulation, BPR, and Virtual and Composite Applications using shared situational awareness intelligence-base	Stage 8 technologies, Identity Management pulling Active Directory into Metis repository, with Metis repository providing Role-based-access-control (RBAC) data to Active Directory and access provisioning technologies
S10. Ongoing UEI KB-based BPM	T5, T6. BPMN process modeling, BPDM process-model data schema, XPDL process model exchange and integration, BPEL process automation, BPM Suite for workflow organization, service/application/data linking, and execution	TIBCO Business Modeling Suite and iProcess BPMS bundle. Stages 9 technologies.
S11. Ongoing UEI KB-based whole-enterprise dynamic operations	T5, T6. Dynamic Enterprise Management (DEM) processes using shared situational awareness intelligence-base using above UEI-contributing capabilities.	Stages 10 Technologies. Operational Visualization and Decision Support Products in above technologies, e.g., Corda, BEA Aqualogic (CSC I-Star), TIBCO iProcess Analysis and Insight
S12. Ongoing UEI KB-based whole enterprise dynamic intelligence	T1, T2, T3, T4, T5, T6. Dynamic Enterprise Intelligence (DEI) fed by enterprise operations and environmental data using above DEM capabilities.	Stage 11 Technologies
S13. Ongoing UEI Ontology Tailoring and Extension	T1, T2, T3. Extended Metadata Repository and ontology modeling tools fed by above DEM and DEI.	Stage 12 technologies