



NEXOF Open Architecture Specification Process

Investigation Teams Kickoff
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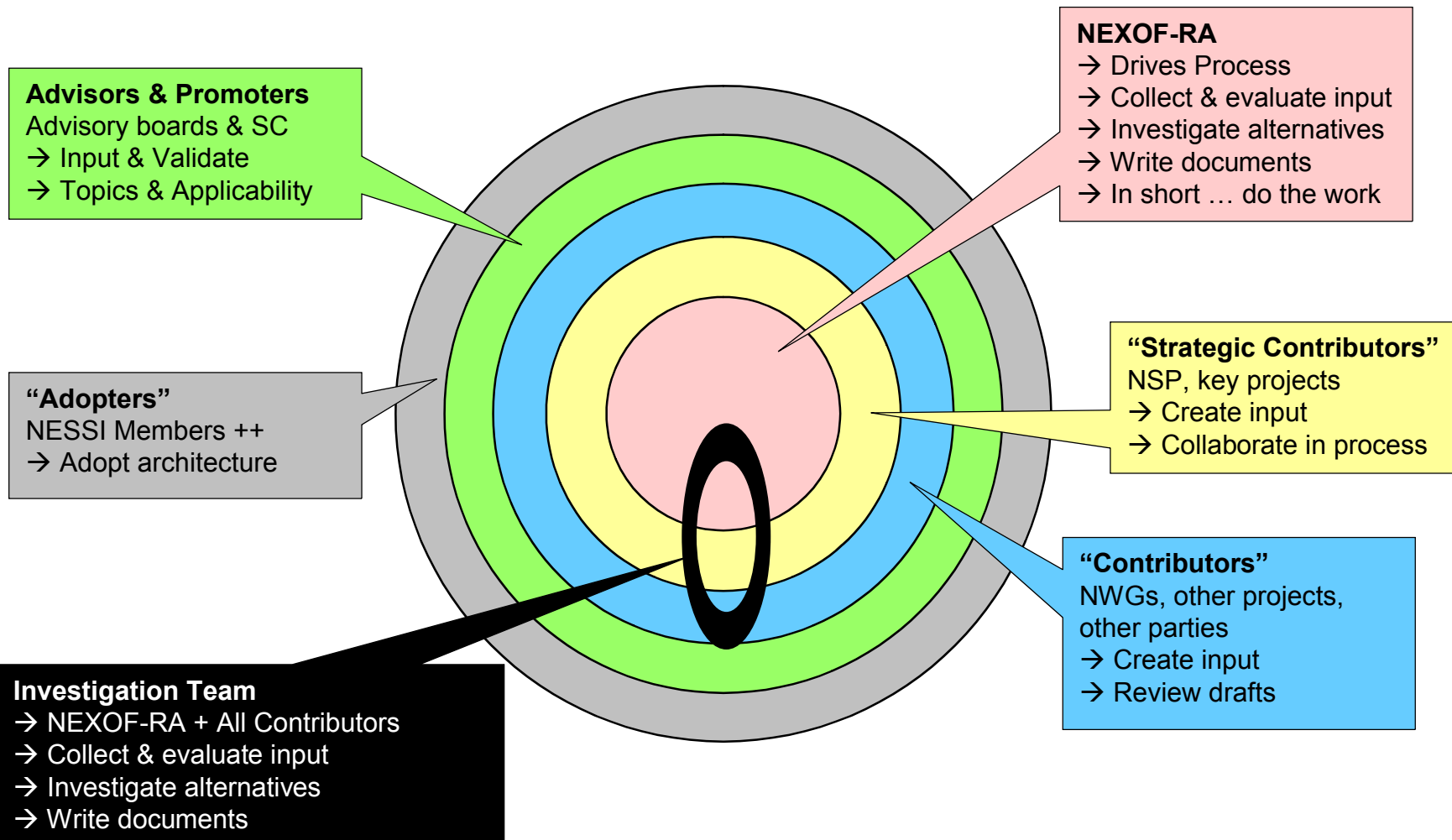
- NEXOF = Open Service Framework
 - Open as... open to use, open to create derivatives
 - Architecture Deliverables under Creative Commons Attribution 3.0 License
 - Open as... open to evolve, to adapt to new requirements and better technologies
 - Incorporate this at the level of principles
 - Open as... open to all contributors
 - Open Architecture Specification Process

- Specific requirement on all contributors:
 - “... your contributions must allow the publication of the NEXOF Reference Architecture as an open document with derivative rights (the project is currently using the Creative Commons Attribution 3.0 License)”
 - Applicable to both your position papers and your contributions to the Investigation Teams
 - Patented technologies (including open specifications which imply the use of patented technologies) require specific attention

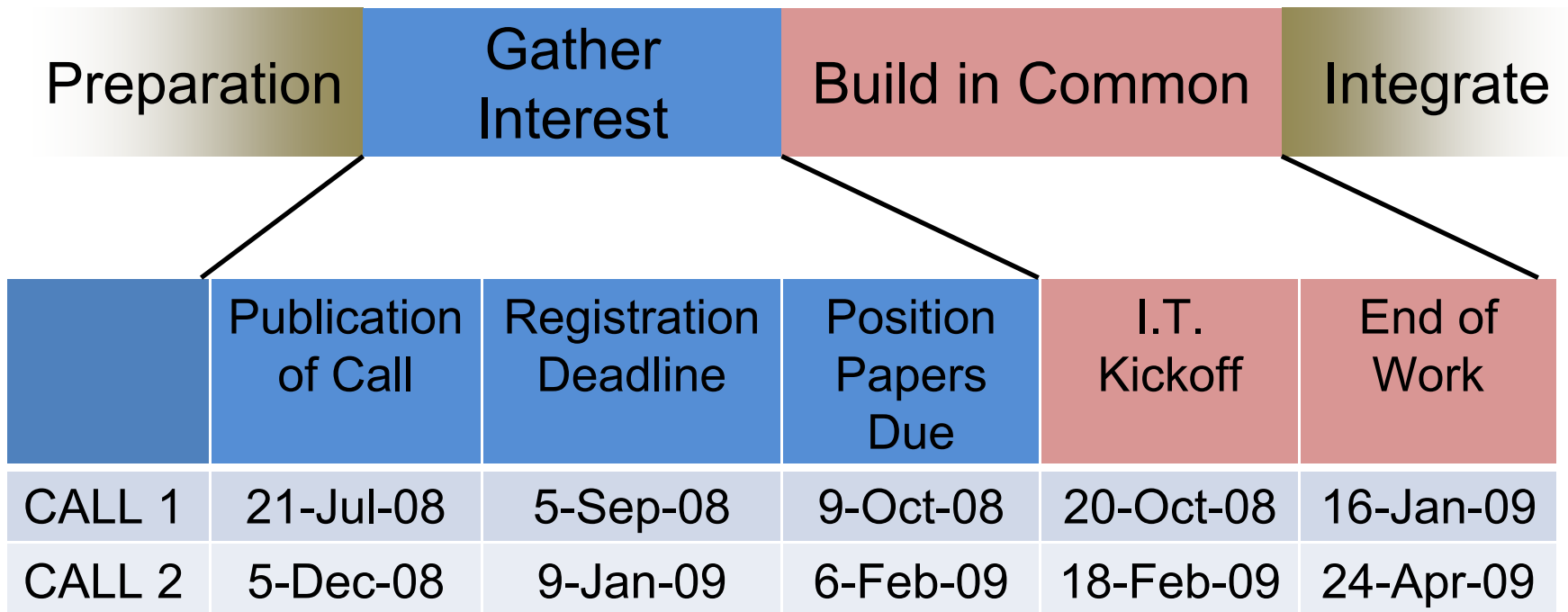
- The NEXOF Architecture is subject to a number of principles
 - coherence, consistence of the framework
 - promote well behaved implementations (guarantee quality of service, ubiquitous operation and continuous availability)
 - independence principle (technology, scope, business domain)

- Open Architecture Specification Process
 - “divide and conquer”
 - address the scope in a modular fashion
 - use patterns as architectural approach
 - implement open process
 - write succinct call, publicized widely
 - phase 1 – gather and survey interest (papers)
 - phase 2 – build in common (teams)
 - phase 2 guidelines
 - **words are good – minds are better**
 - engage in a constructive manner
 - project coordinates activity

Multiple way to be OPEN



Calendar – Cycles 1 & 2



NOTE – Dates for Call 2 are TENTATIVE

- As of 30-Sep-08
 - 100+ unique email registered
 - Including 12 from NEXOF-RA partner organizations
 - From 24 identified countries
 - 4 Outside Europe: Australia, China, Korea, USA
 - 3 European outside EU: Norway, Switzerland and Turkey
 - Well represented: Italy (17), Spain (10), UK (9)
 - Representing more than 30 projects
 - More than 240 individual topic of interests
- 70+ contributors registered to this event

Call 1 Distribution per Topic

- Core Service Framework Area
 - Service Description → 32 interests
 - Design Time Service Composition → 36 interests
 - Service Discovery → 34 interests
 - Interoperability of Message-Based Service Interaction → 17 interests
- User Interaction Area
 - Declarative Authoring Language for User Interfaces → 10 interests
 - Context Model and Universal APIs → 21 interests
- Infrastructure Area
 - Definition of Infrastructure Services → 33 interests
- Security Area
 - Dynamic identity management for SOA → 13 interests
 - Privacy Management in SOA → 11 interests
- Quality of Service Area
 - Scalable Approaches to Service Oriented Infrastructures → 27 interests
 - Highly Availability for Multi-Tier Architectures → 11 interests

Core Service Framework Area

- Federated Registries
- Distributed Intelligent Deployment
- Service Lifecycle Management
- Event-Driven Architecture
- Access to Current Assets / Legacy Integration
- Service Creation
- Semantic Interoperability
- Semi Dynamic Service Composition and Service Goal Decomposition
- Intelligent Service Discovery - Service Capability Extraction

User Interaction Area

- Context Binding Models and Policies
- Expressing Service Front-End Resource's Metadata
- Standard APIs for the Service Front-End Resource's Execution Environment

Infrastructure Area

- Service and deployment description languages for infrastructure services
- Infrastructure service reference points (usage and management)

Security Area

- Dynamic Security in SOA and SOI
- Multi-level Security in Interconnected Systems

Quality of Service Area

- Description of non Functional Aspects
- SLA and QoS
- Federated and Autonomic Management in SOA
- Transactional Support for SOA