



U.S. Environmental Protection Agency
Web Services Working Group

Approach to Web Services Governance

May 22, 2006



Agenda

- Introduction
 - Goals of Web Service Working Group (WSWG)
 - Scope of WSWG
 - Relationship of WSWG to Other Governing Bodies
- Identifying WSWG Governance Items
- The Means of Governance
- Wrap-up



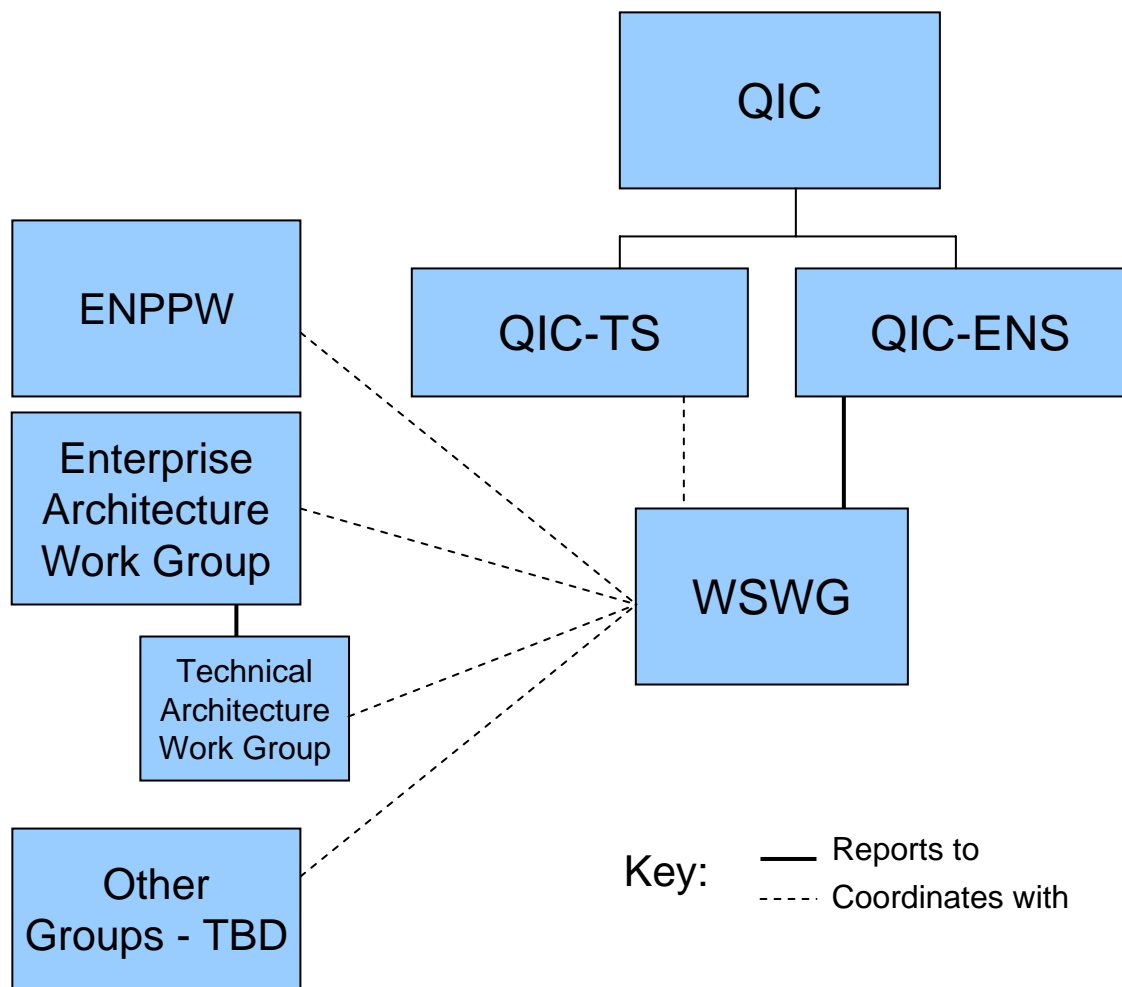
Introduction

- Web Service Working Group Goals
 - Coordinate and align Web Services efforts
 - Provide sound technical and practical guidance on the application, alignment, management, re-use, and governance of Web Services technology within EPA
 - Ensure interoperability and avoid re-work
 - Develop Web Services and Service Oriented Architecture (SOA) governance strategy
- WSWG Scope
 - Develop policy recommendations concerning deployment of Web Services or issues that relate to Web Services and the SOA *across the Agency*
 - Not limited solely to CDX or the Exchange Network

*See WSWG Charter



Potential Relationship of WSWG to Other WS Governing Authorities

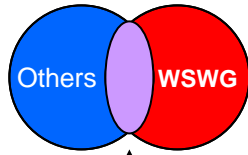


- WSWG operates under the sponsorship of the Quality Information Council
- WSWG works *in conjunction with* other EPA groups developing or using Web Services

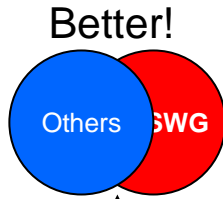
Key: — Reports to
- - - Coordinates with



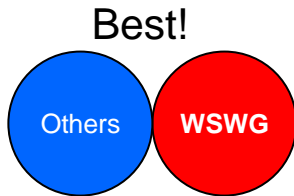
Relationship of WSWG to Other WS Governing Authorities (Cont'd)



Overlapping
Governance Areas



Better!
Clear, but not Optimal



Best!

- Separating Realms of Responsibility
 - Governance entities need clearly defined realms of responsibility
 - Lack of clarity leads to overlapping or redundant functions
 - Address boundary areas early
 - Better to have grudging agreement than overlap
- WSWG will mitigate by including participants from all EPA WS groups



Need Clear Roles and Responsibilities

- Example:
 - Governance Authority
 - Coordinate service delivery, changes, dependencies
 - Define rules for services and service orchestration
 - Service Owners
 - Define and prioritize needs that drive new service implementation
 - Implement business services
 - Agree to service levels with infrastructure stewards
 - Infrastructure Stewards
 - Make technical implementation decisions
 - Deliver on agreed upon service levels with respect to service availability, performance (response time and throughput), reliability, and security
 - Monitor service performance and report to Service Owners

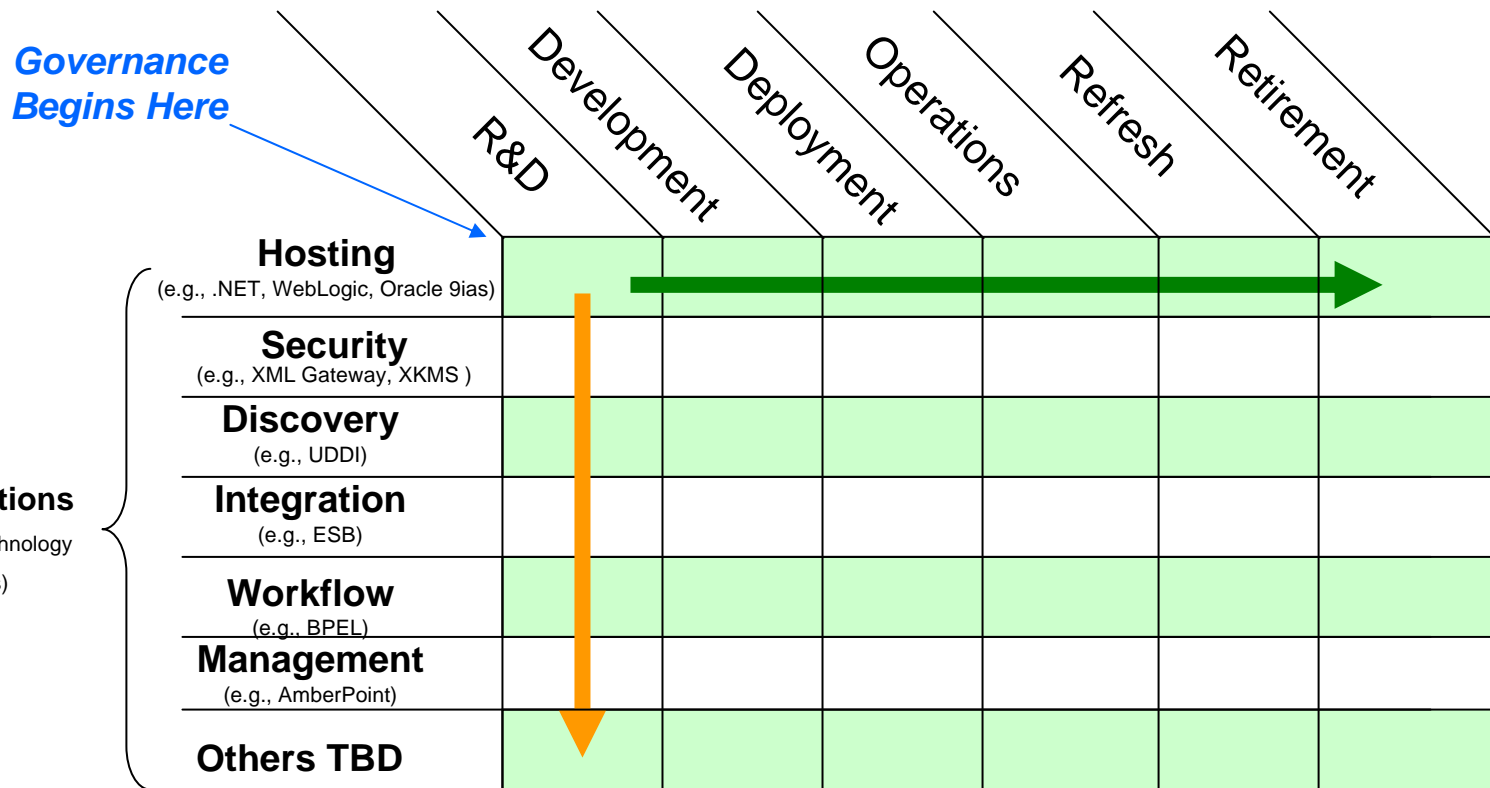


Identifying Governance Items



Technology and LifeCycle Governance

- Governance items align directly with the enabling and supporting elements of the SOA
- Governance will apply across the entire lifecycle
 - Should be initiated upon identification of WS-related business case for that technology



The Means of Governance



Means of Governance

- The WSWG will establish Subgroups where other governance groups have not established prior domain
 - There will be one subgroup for each major WS enabling and supporting technology:
 - General WS Use (i.e., standards/definition)
 - Hosting, Discovery, Integration, Workflow, Management, and Security
 - WSWG Charter will be updated to indicate the governed domains
- Subgroups will
 - Moderate and align needs of developers, owners, and consumers
 - Produce or identify governance artifacts for WSWG approval
 - Policy Recommendations, Guidelines, Standards, and Procedures
 - Develop guides for the Program Offices on how to best use each of the WS technologies
 - Perform technical reviews, where appropriate



Means of Governance (Cont'd)

- Subgroups will forward recommendations to the WSWG on a regular basis
 - WSWG will establish an approval process for each governance artifact type
- WSWG will provide approval or forward recommendations to appropriate external governing body



WSWG Subgroups

- Subgroup Membership
 - Core members should be individuals who have technical or policy interests in those areas at EPA
 - Should include technology owner
 - Number of participants limited
 - Can include subcontractors with sponsor approval
 - Subgroup Will Have A Chair Person
 - Assigned by WSWG
 - Active subgroup chairs report progress at monthly WSWG
- Subgroup Meeting Frequency
 - *At least* once per month, probably once per week initially

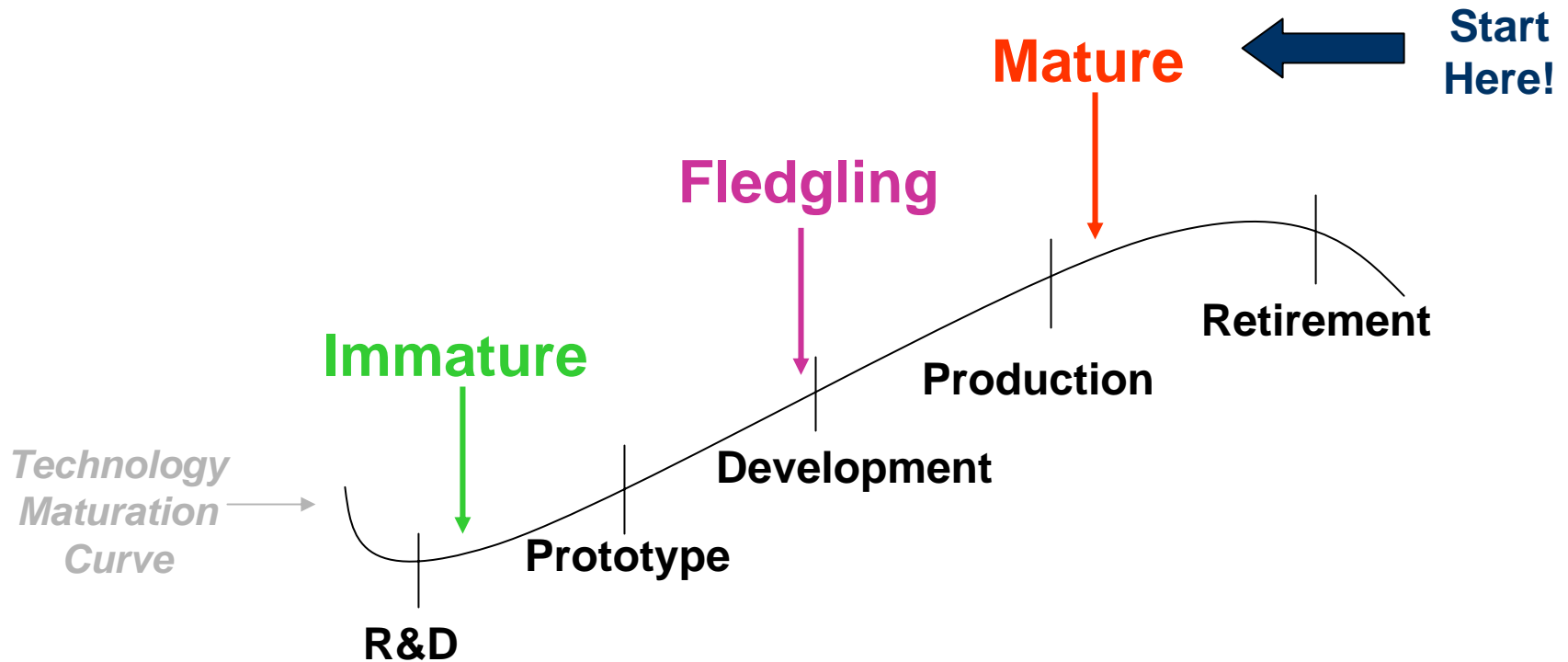


Prioritizing Subgroup Work



Establishing Work Priority

- Establishment of subgroups and their work will initially be prioritized according to the near-term maturity of technologies within the SOA
 - Henceforth should be tackled upon technology introduction



Next Steps



Web Service Governance – Next Steps

- What are the next steps?
 - Approve and publish the overall WSWG Governance approach
 - Develop a schedule for establishing the subgroups needed to produce the technology policies and guidelines (including prioritization)
 - Assemble the subgroups
 - Facilitate workgroup sessions for the subgroups to drive the work products being developed and drive the WSWG participants to accept them

