

Panel: Business Impact of Research on Policy for Distributed Systems and Networks

IEEE Policy Workshop 2007

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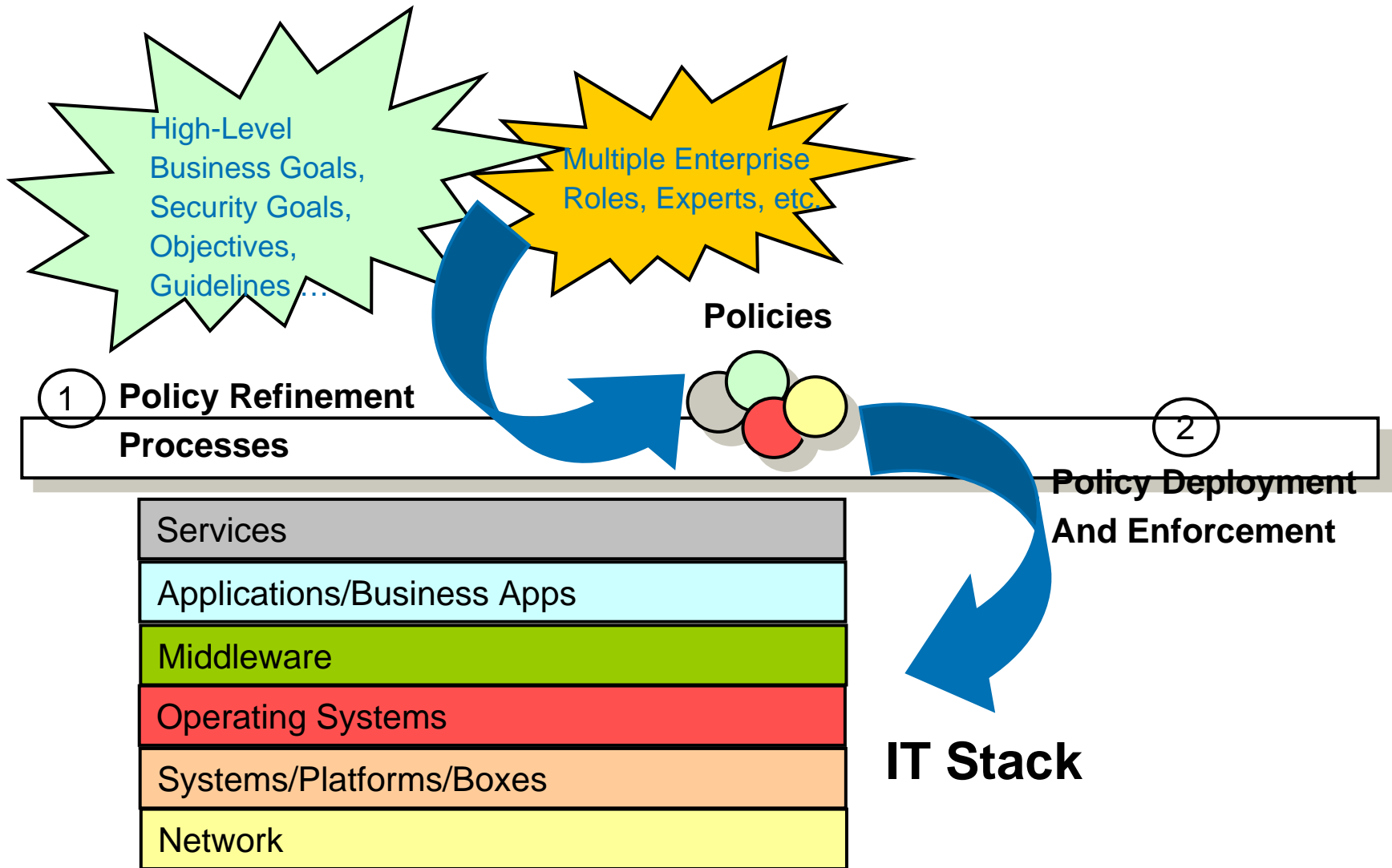
Hewlett-Packard Labs



Questions

- What success stories does the policy research community have to show for these ten years of research in terms of real business impact?
- What was envisaged ten years ago that did not materialize, and what are the reasons for that?
- Is the community still investigating these issues? What is the likelihood of success if so?
- New trends and links to business-driven IT management?

The Vision of 10 Years Ago

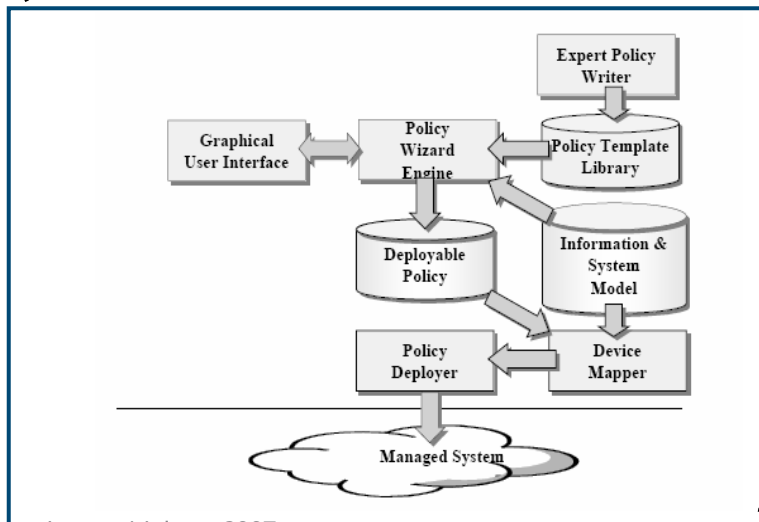
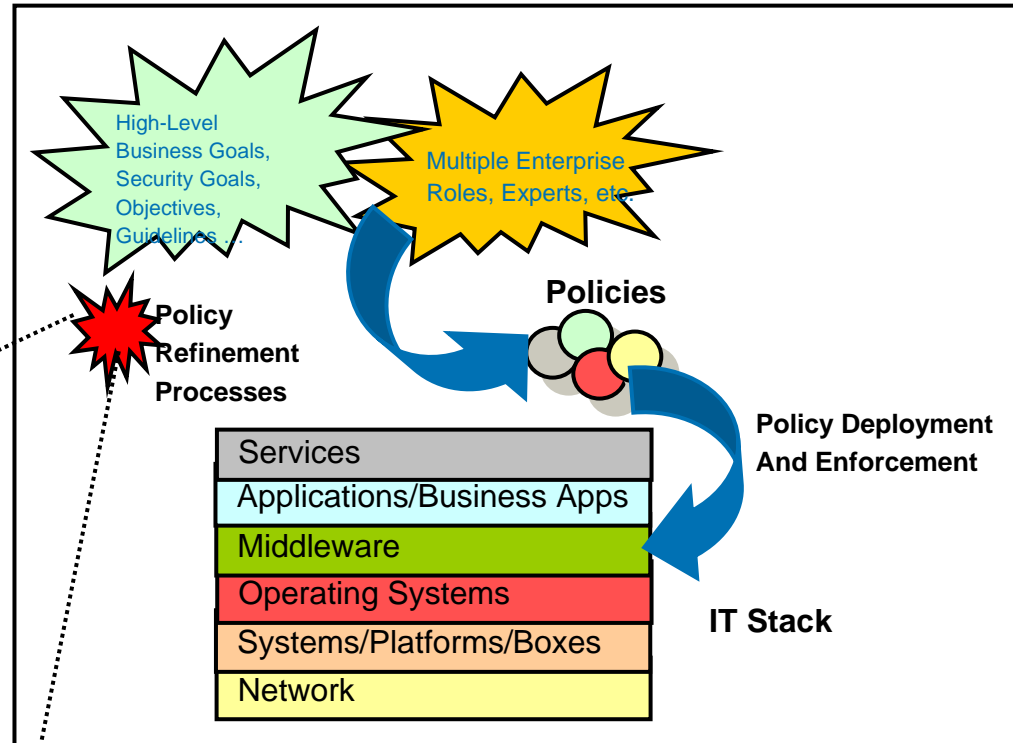


Enterprises/Organisations

Policy Refinement: POWER Prototype

1998

- Understood the importance of “bridging” high-level goals & policies with policies at the IT level.
- Good “academic” success
- Got some attention from HP business units



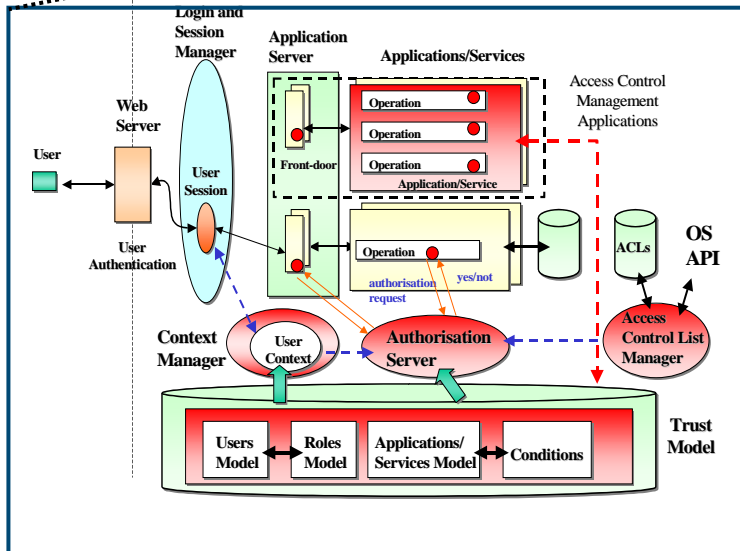
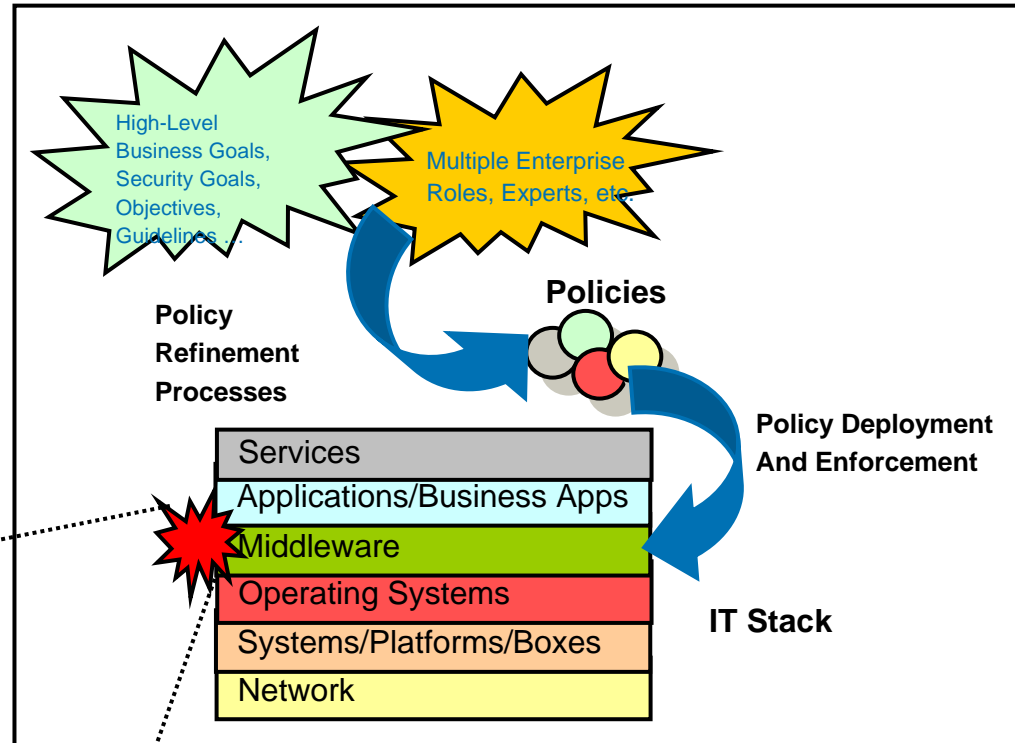
- ✗ Too early. Enterprises/Orgs not ready
- Too general-purpose approach ...
- No clear definition of high-level processes
- Over-simplified understanding of high-level policy and guideline definition steps
- seen them from an IT perspective, NOT a business perspective (involving risk/cost management, etc.)



ACISIS: "Rich", App-Level Authorization Policies

1999

- Focused on more pragmatic types of Policies at App/Service level
- Bet on B2B, App/Service-driven policies
- Got good attention from HP business units
- Helped by Internet-hype ...

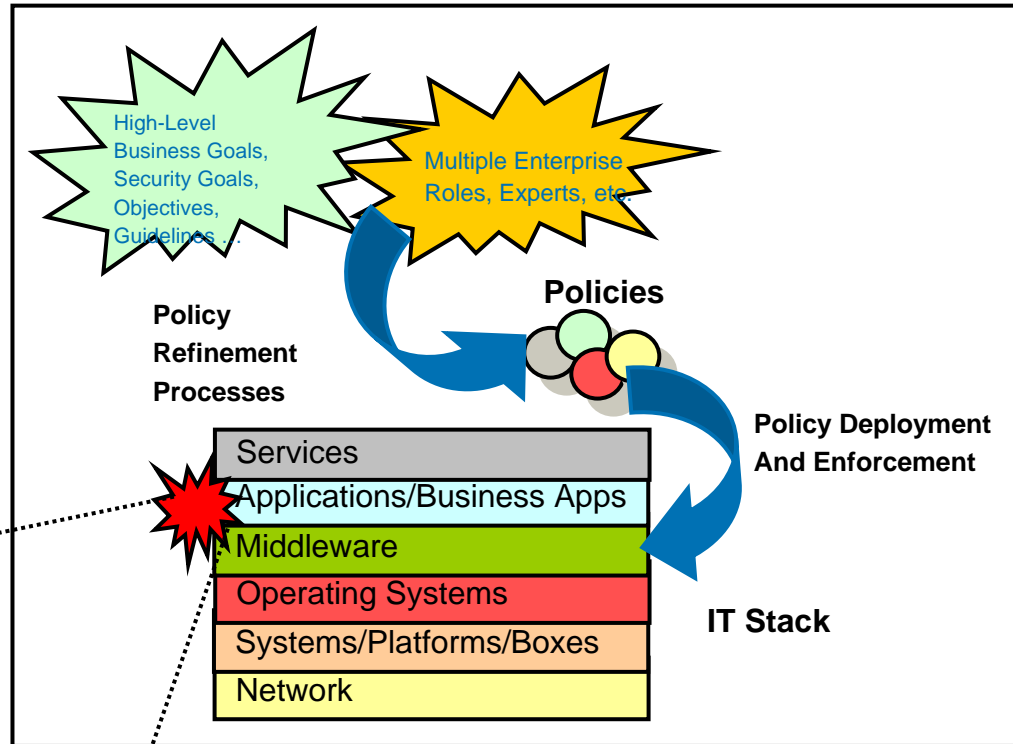


- X** • A few AAA solutions were already deployed in enterprises → dealing with legacy ...
- Despite the added-value, not worth changing legacy solutions
- Too IT focused ...
- No transfer to HP divisions ...

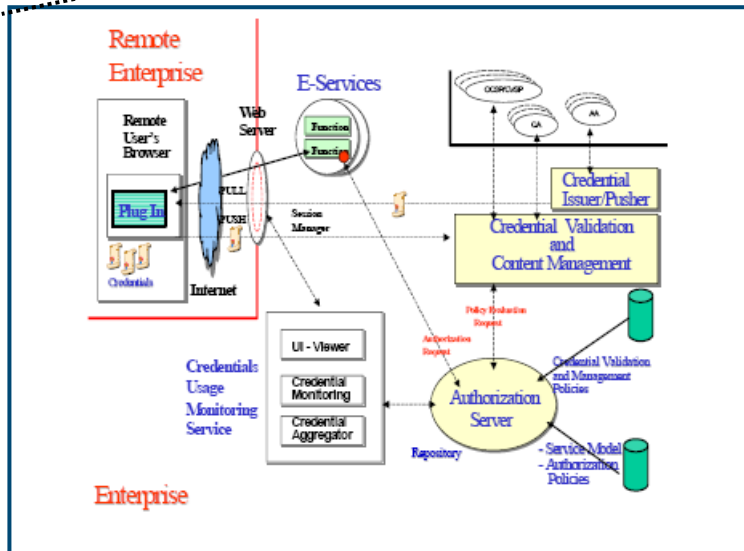
Policies

2000-2002

- Focused on “missing” policy aspects: trust policies, jointly with PKI infrastructure and authorization
- Bet on B2B and PKI adoption
- Got good attention from HP business units & Exhibitions
- Helped by PKI-hype



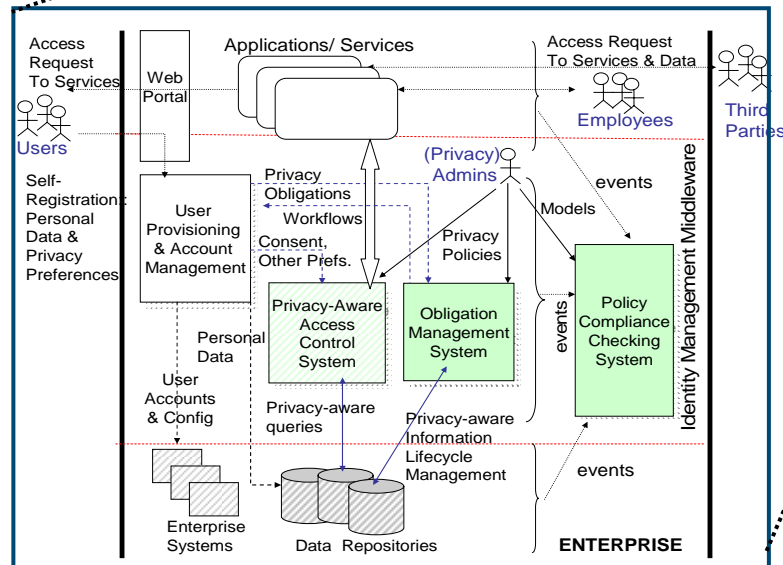
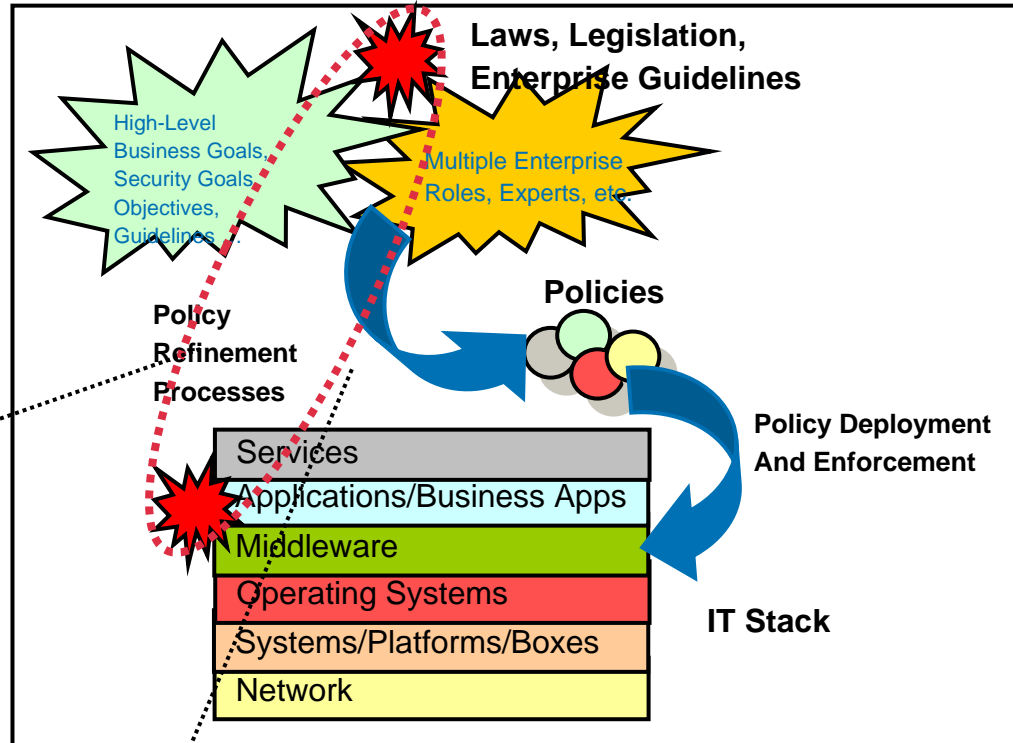
- PKI and trust management have not actually become a priority for enterprise. No widespread adoption
- Again, too IT focused ...
- No dynamic B2B adoption ...
- No transfer to HP divisions ...
- Internet burst - end of a cycle ...



Privacy-aware Policy Management ...

2004-2007 ...

- Addressed Policy Management problem from Business, Legislative & Users perspective → real needs (compliance, data governance, etc.)
- Leveraged Existing Enterprise Identity Mgmt Solutions
- Got good “Academic” attention (conference papers, etc.)
- Technology and Knowledge transfer to HP business units



- Targeted area is still a “niche”-area
- Business priorities on other types of compliance (e.g. SOX compliance)
- Auditing as important as enforcement ...
- Increasing relevance and importance of Business-driven IT management and focus on policies in this space ...

What success stories does the policy research community have to show for these ten years of research in terms of real business impact?

- Academic “Successes” do not imply Industrial/Business Success
- We (as HP Labs) had success stories and business impact - in terms of Technology and Knowledge Transfers - when Aligned with Business (and Users) Needs:
 - Example of Privacy-aware Policy Management
 - Example of Policy Management in Federated Identity Management Context
 - Example of “Sticky Policies” associated to Valuable/Confidential Data
- Clear perception of added value at the Business-level
- Importance of Leveraging Legacy and State-of-the-Art Solutions. No willingness of businesses to throw away past investments → conservative approach

What was envisaged ten years ago that did not materialize, and what are the reasons for that?

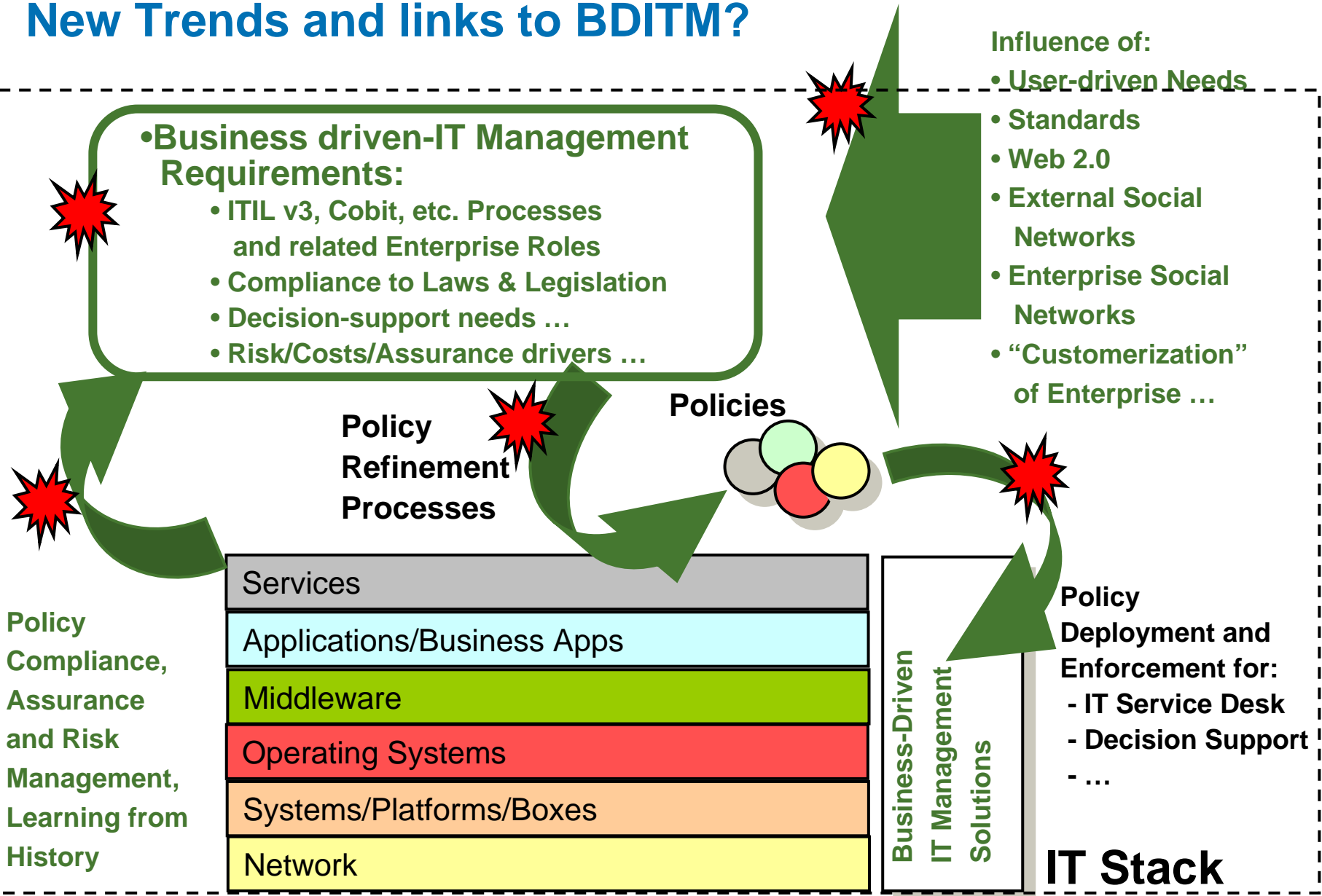
- **General-purpose Approach to Policy Refinement & Management**
 - Unrealistic: too many different IT Layers and related Requirements
 - Unrealistic: underestimated/lack-of-knowledge of processes and decision-making mechanisms at the business-level
- **IT-focused Approach to Policy Management:**
 - Unrealistic: first understand business needs and drivers
 - Often too much advanced technical functionalities - in terms of policy management – that are not really required by enterprises/organisations
 - Reality-check: Business-driven IT Management
- **“Ideal” Approaches, based on “Starting from Scratch”:**
 - Unrealistic: first understand current legacy constraints and existing solutions. Consider cost/benefit of requiring to changes

Is the community still investigating these issues? What is the likelihood of success if so?

Yes, but with a more Pragmatic and Business-driven Approach:

- Policy Refinement & Management for IT solutions:
 - Driven by business: (involving risk/cost analysis, etc.)
 - Based on business IT standards & processes, such as ITIL, COBIT, e
 - How to Refine these types of Policies/Guidelines
 - How to Deploy and Enforce these Policies
 - How to Deal with Compliance and Governance aspects
 - Focused on key areas, such as IT Support, Help Desk, Quality of Service and SLA, Decision Support
 - Very Important Areas subject to High Investments
- Reasonably High Likelihood of Success, if R&D work is NOT Done in Isolation but involving Industry and Business Units and Continuously Cooperating with them

New Trends and links to BDITM?



Towards Enterprise Web 2.0 ...

