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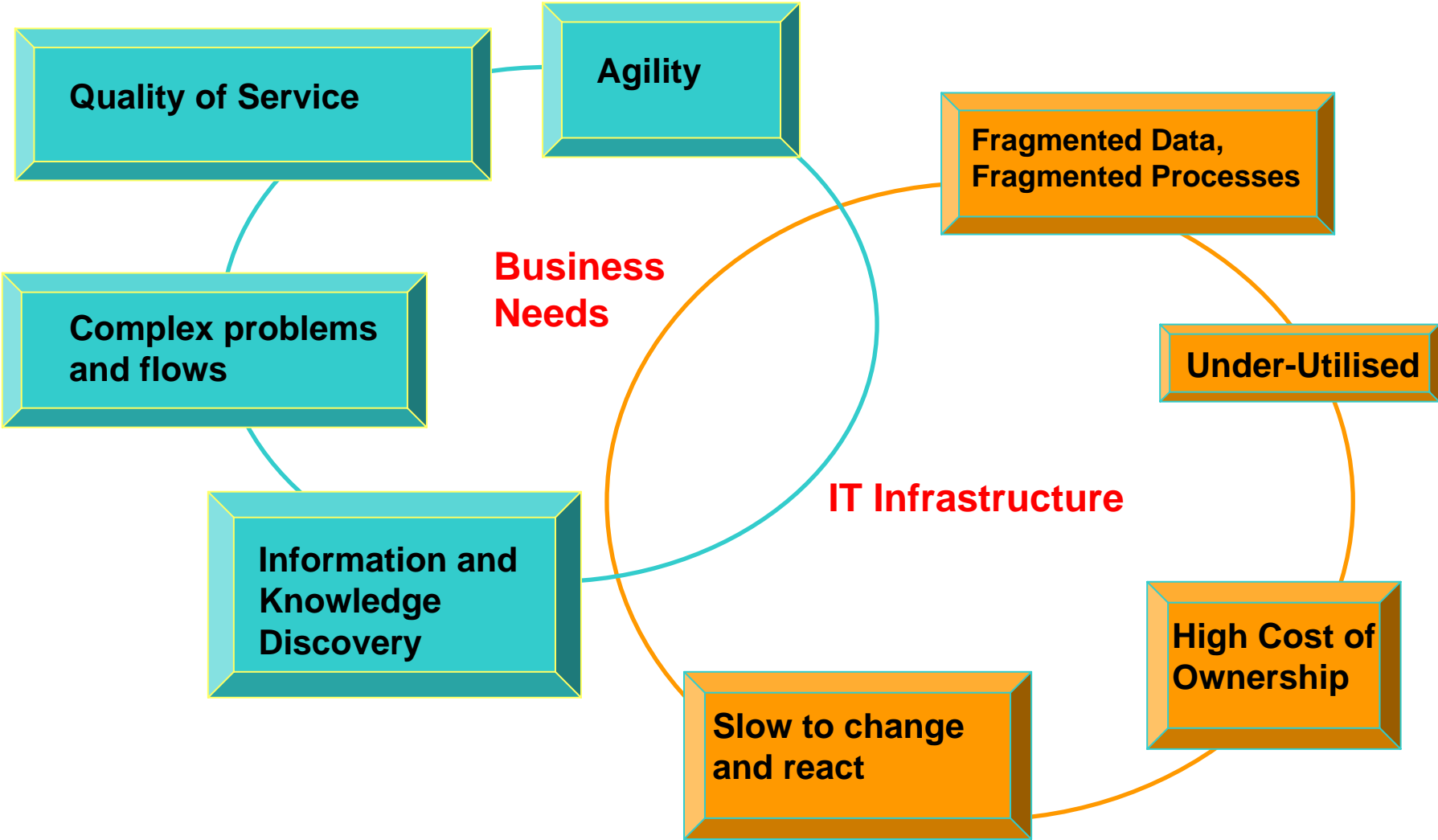
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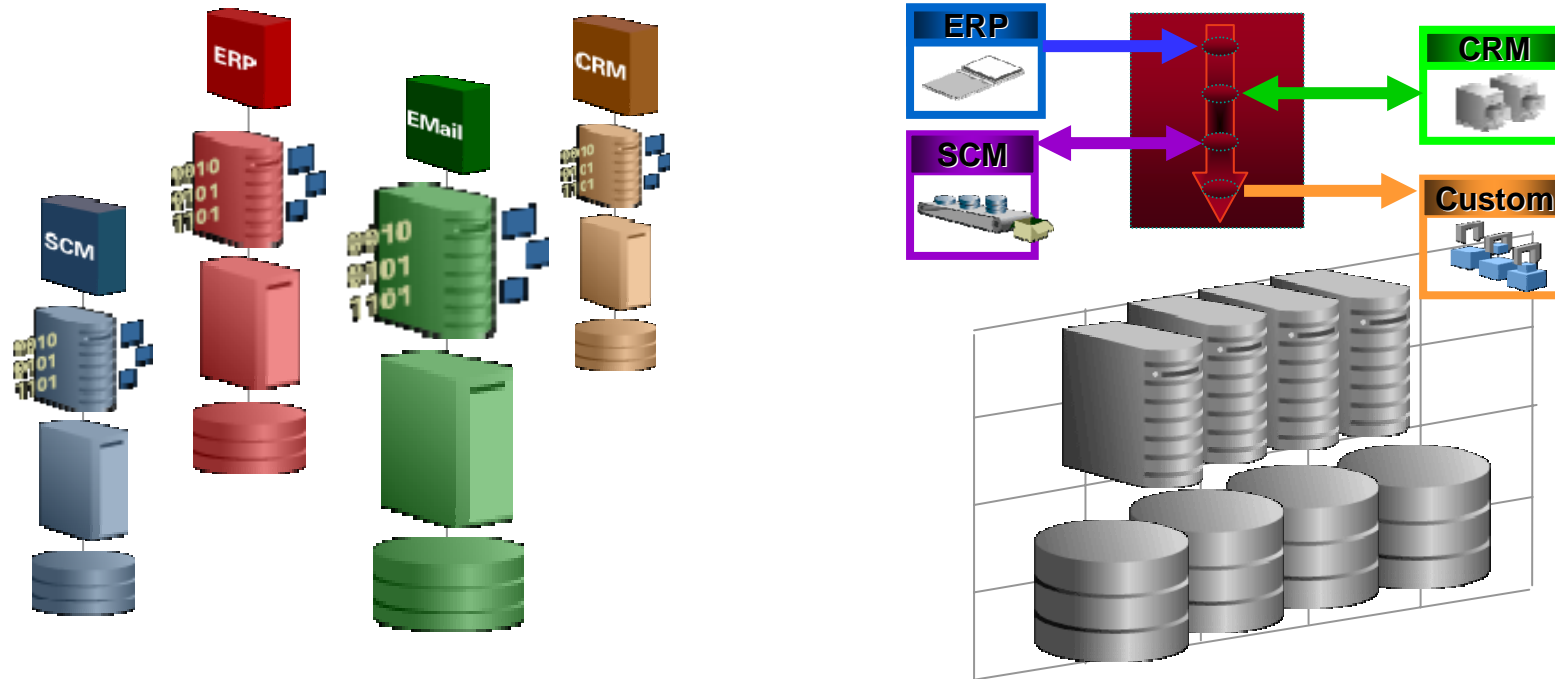
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Business and Scientific Grids
Differences/Similarities
Learning From Each Other

Business Challenge

Quality of Service

Agility

Fragmented Data, Fragmented Processes

Complex problems and flows

Business Needs

Under-Utilised

IT Infrastructure

Information and Knowledge Discovery
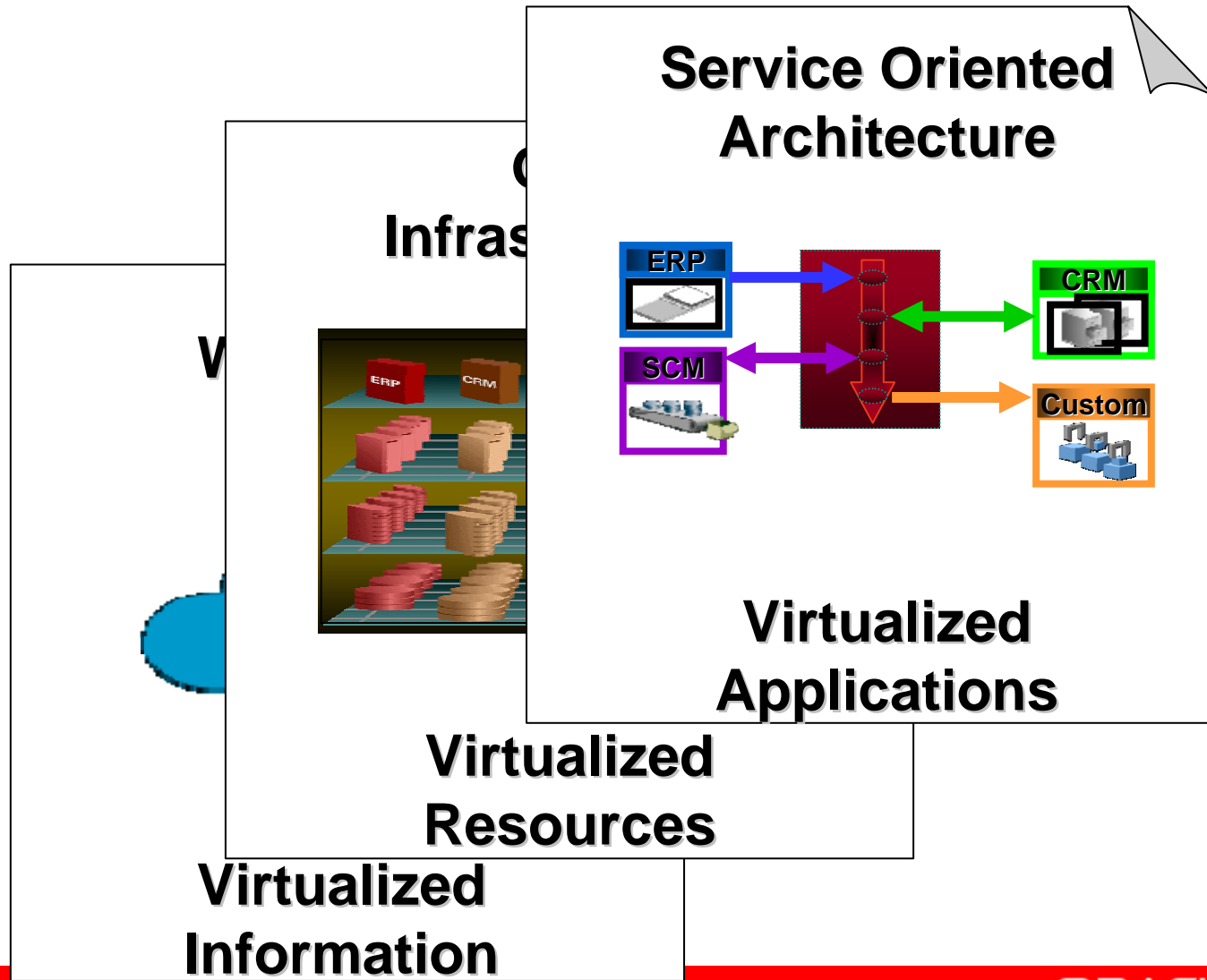
Slow to change and react

High Cost of Ownership

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IT Response

Monolithic Applications ➡ Service Oriented Applications

Functional Domains ➡ Resource Domains

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Service Oriented Architecture

ERP

CRM

SCM

Custom

Virtualized Applications

Virtualized Resources

Infras...

W...

Virtualized Information

Scientific world

Collaborative

Commercial Interest

Information
Centric

Innovation

e-Science

Multi-Disciplinary

Global

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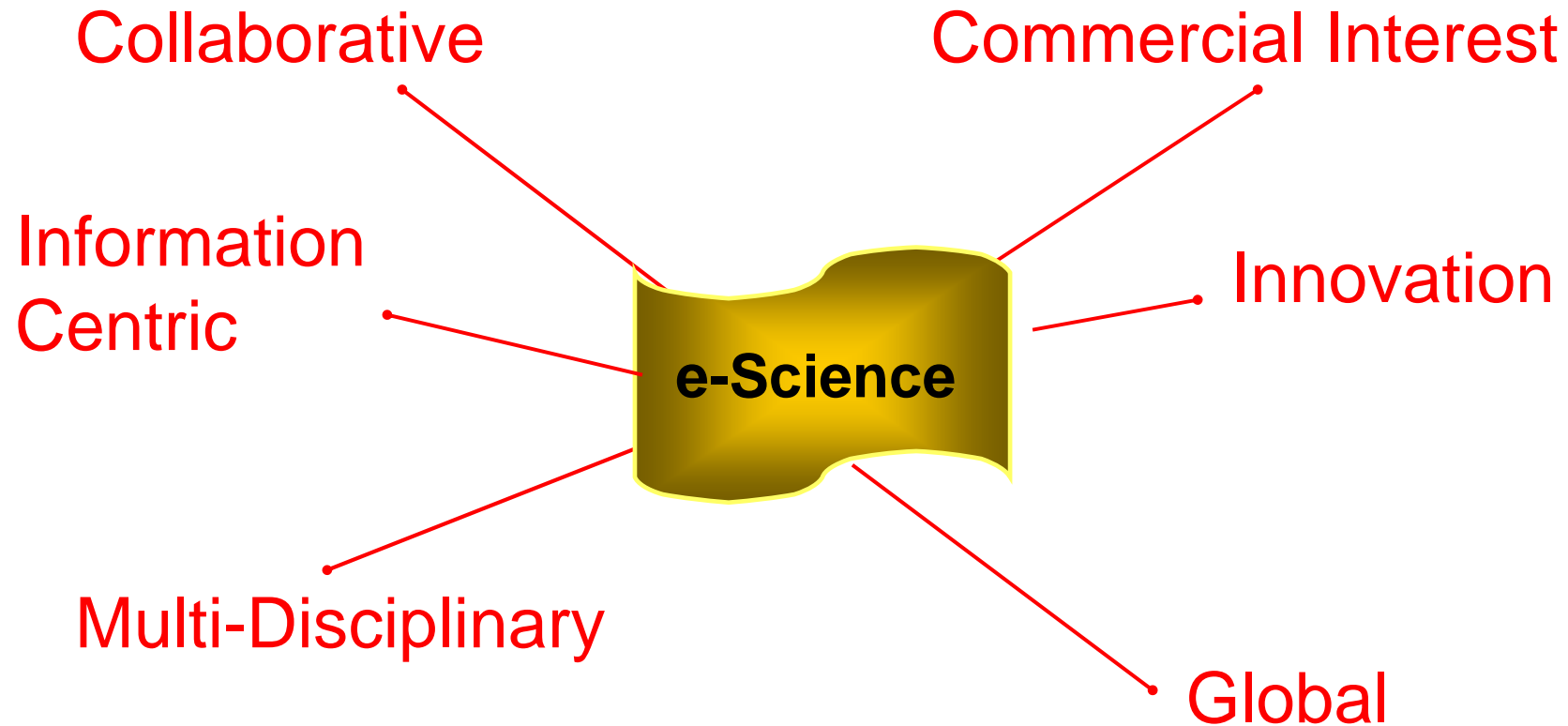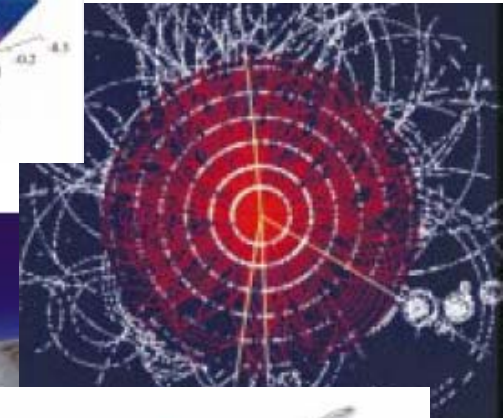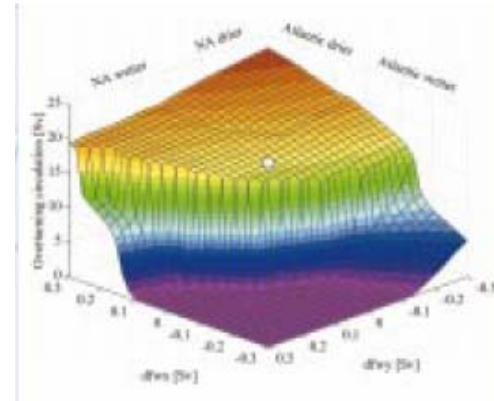
e-Science: domains

- Lifesciences
- Bioinformatics/ Biology
- Engineering
- Medical imaging
- Physics
- Geology
- Metereology
- Communications
- Astronomy
- …

Characteristics

- Collaborative
  - Sharing, Comparing, Dynamic
- Very large data collections
- Very large scale computing
- High performance
- Flexible
- Secure
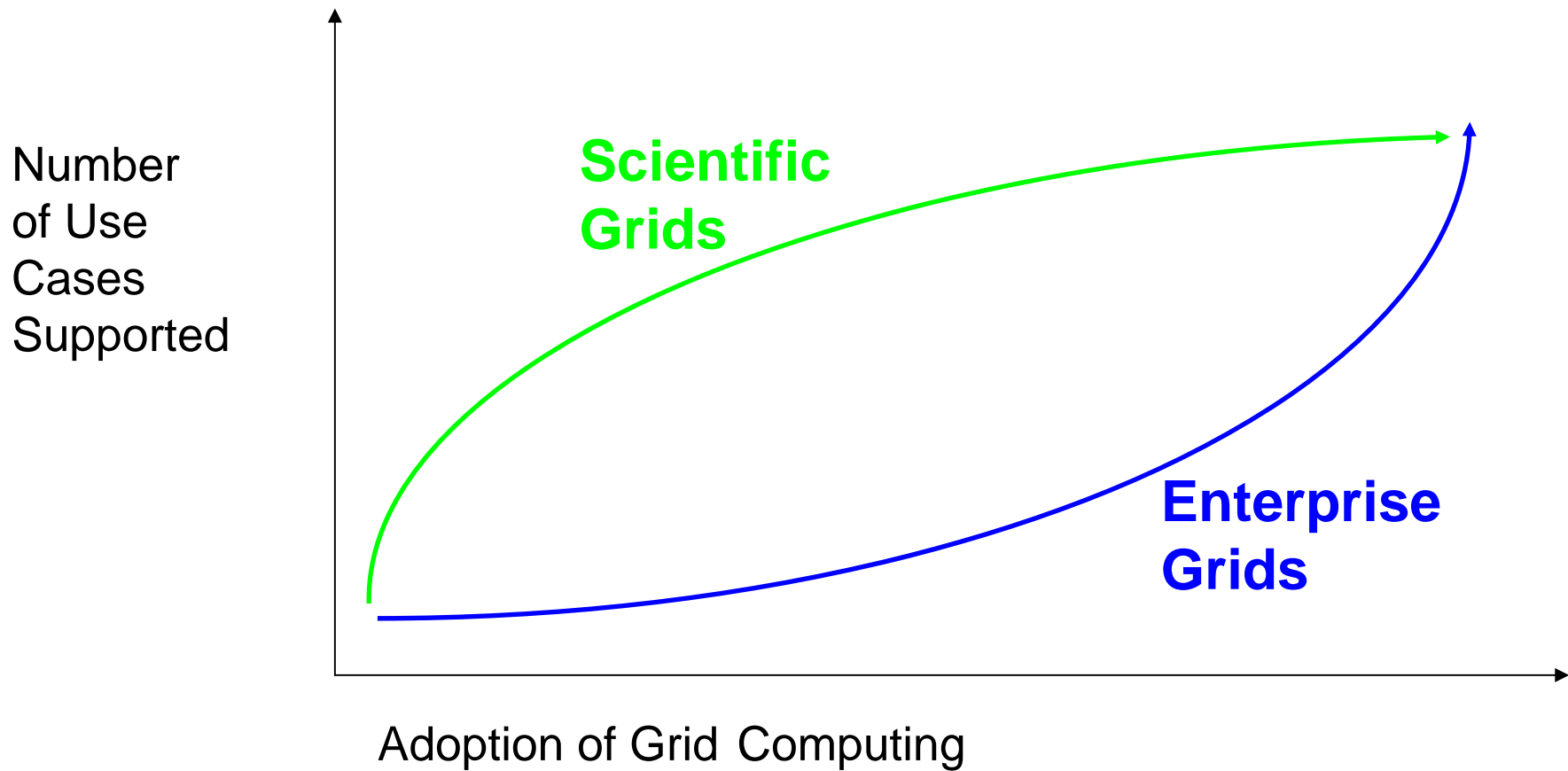
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Compare and Contrast

Commonalities

- Distributed
- Virtualisation
- Resource Sharing
- Data: Information: Intelligence: Knowledge
- Flexibility

Differences

- Administrative Domain
- Centralisation of Control
- Security & Privacy
- Pricing, SLAs
- Quality of Service

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Same Vision, Different Paths

Number of Use Cases Supported

Scientific Grids

Enterprise Grids

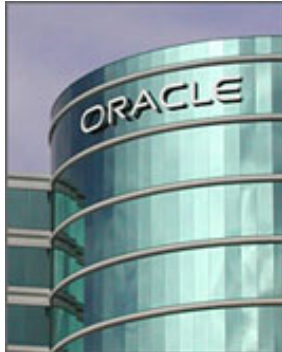Adoption of Grid Computing

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Our Challenge

What can we learn from each other?

How can we leverage our strengths?

Oracle's Business

Information sharing

Knowledge discovery

Data management
and analysis

Large distributed
amount of data
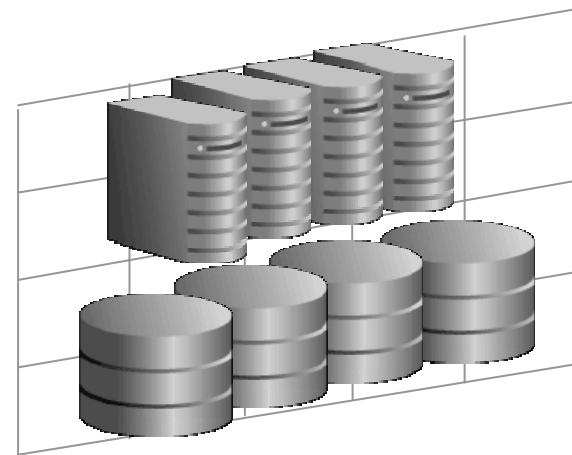
Large distributed
communities

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Oracle Grid Technology

- Distributed architecture
    - High Availability
    - Scalability
    - Automated management
    - Replication
- Virtualisation
    - Infrastructure
    - Application
- Security
- Collaborative tools

- Open Standards

ORACLE GRID

Oracle Strategy

- Grid Computing
- SOA
  - Oracle Fusion Middleware
  - Oracle Fusion Architecture
- Security & Visibility
  - Throughout the IT infrastructure
- Open Standards
  - Interoperability
  - Integration

What can we learn from each other?
How can we leverage each other strengths?

- R&D Partnership

- Knowledge Exchange

- Collaborative and Interdisciplinary effort

- Work together to full Grid adoption

Thank you!

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