



Services@MediGRID

Introduction
and intermediate results



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Why Services@MediGRID?

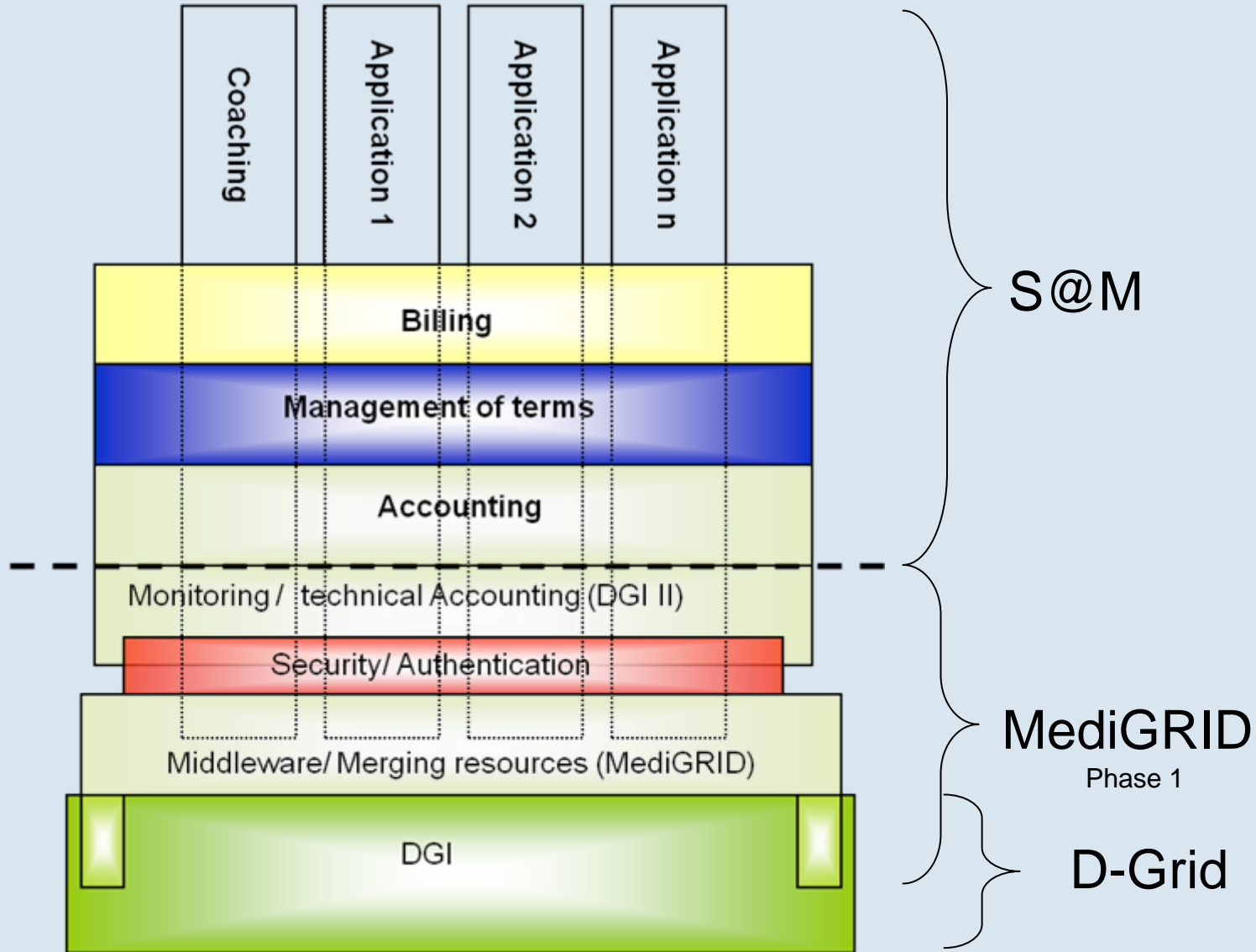
- It is conceivable that the market potential for Health Grid services continues to grow
- In the future Life Sciences sponsors will probably only support purchasing Grid services instead of funding new IT infrastructures
- The demand for Grid services for small and medium-sized businesses needs to be faced – companies of these sizes should be made independent of public investment

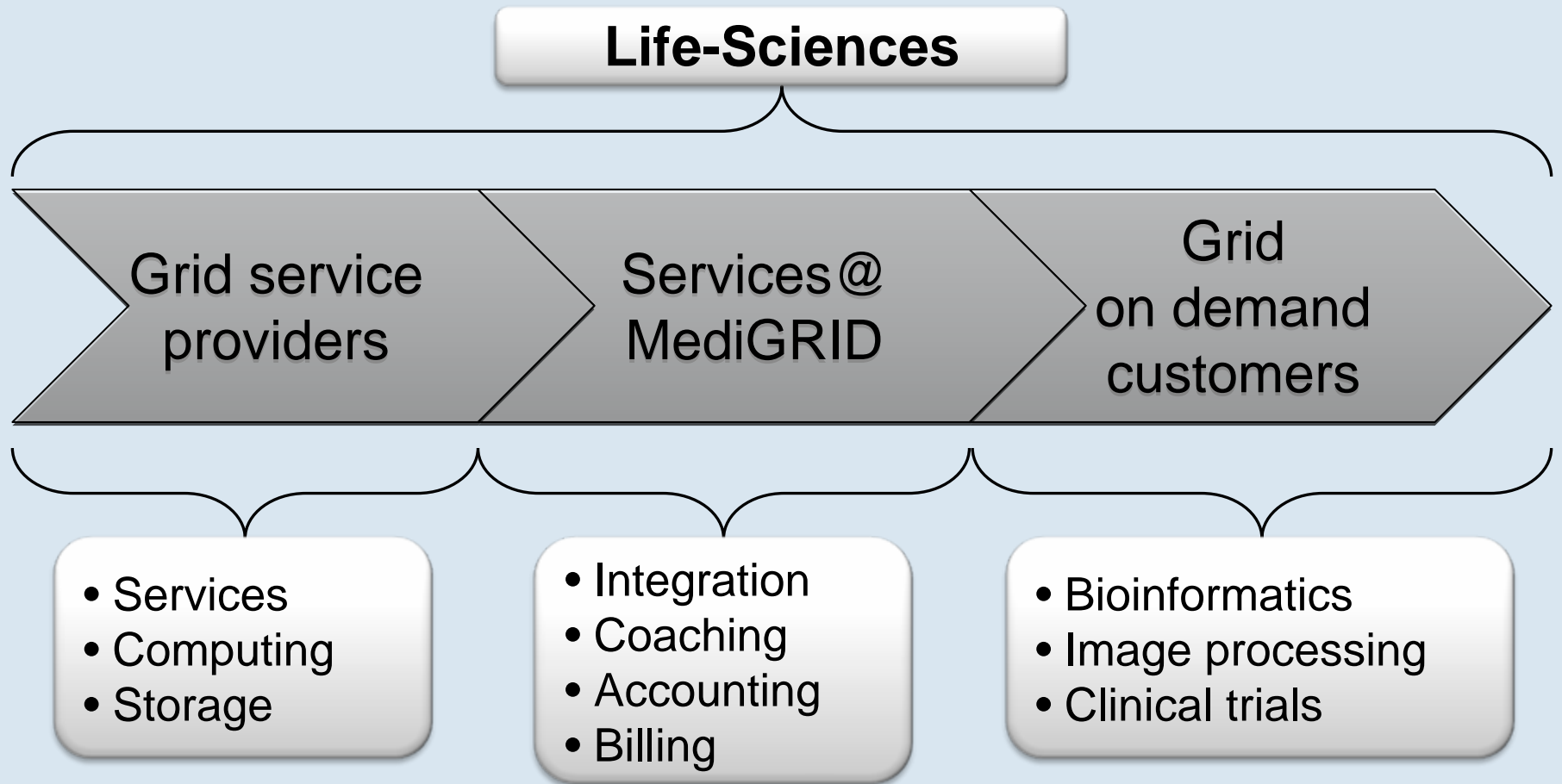
Why Services@MediGRID?

- Accessing Grid services still requires much in-house effort – new Grid service providers and Grid customers need coaching in order to get their applications on the Grid
- The MediGRID infrastructure requires sustainability in order to support Life Sciences on the long term – therefore
 - Grid usage must be chargeable (and charged) monetarily
 - Service availability must be guaranteed
- No standards are defined for accounting and billing in the (Health) Grid environment – such standards have to meet the security requirements

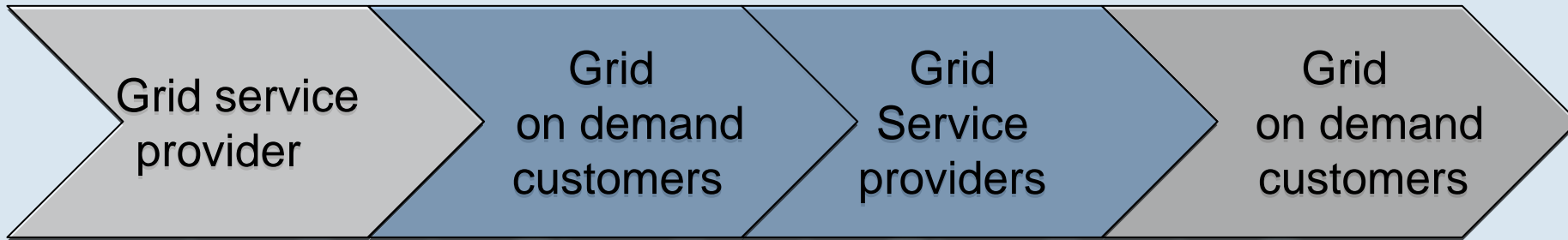
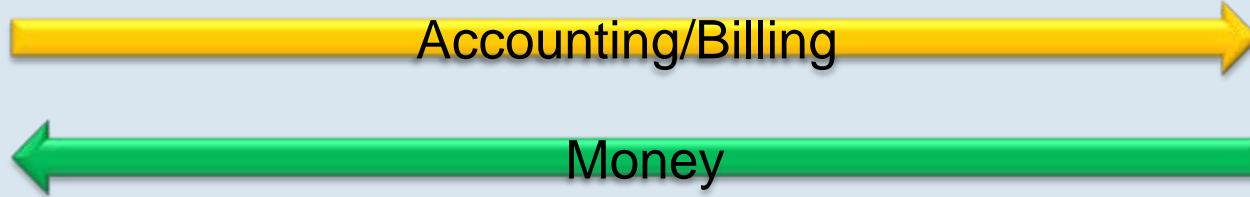
- Start: 01/2008
- Finish: 12/2010
- Several academic and industrial partners are involved (e.g. BAYER Technology Services)
- Leverage the access to Grid resources
- Establish service and business models including
 - Service Level Agreements
 - Accounting and billing
 - Requirements of privacy and data security
- Industrial service providers can be provider of professional Grid services or obtain services themselves

Classification of S@M





Classification of Grid Roles



Grid Infrastructure

- Services
- Content
- Support

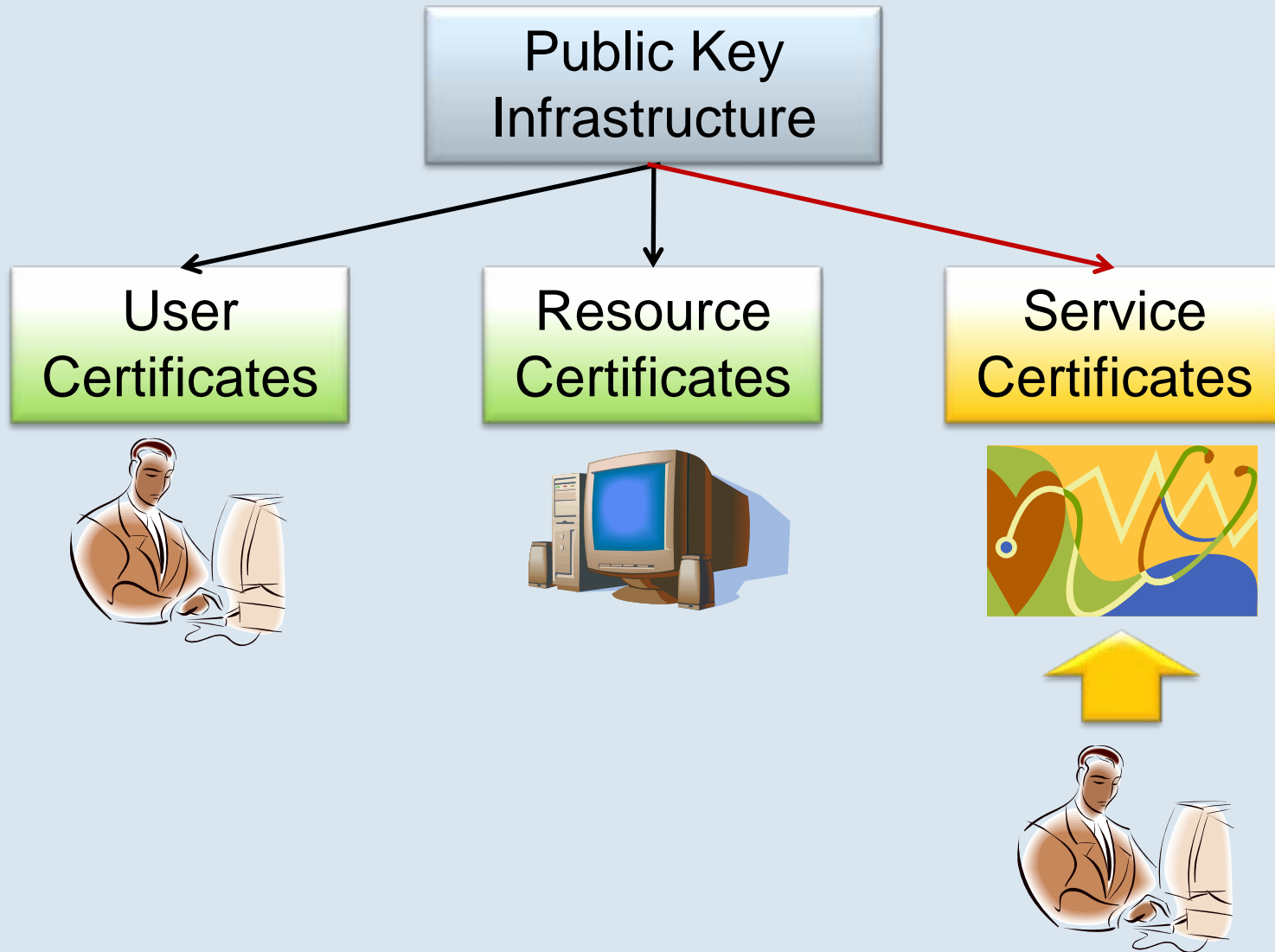
Intermediate results

- Coaching for applications which need to be „gridified“
 - Usage of Windows/.NET – porting to Linux
 - No parallel/distributed algorithms implemented
 - Connecting Grid infrastructure components
- High bandwidth requirements for connecting the end user : 10/100 Mbit
- Predicted Grid resource usage
 - Storage is not necessarily in focus for long term storing like in digital preservation
 - Compute power is dominant – without the Grid the applications could not be used at all

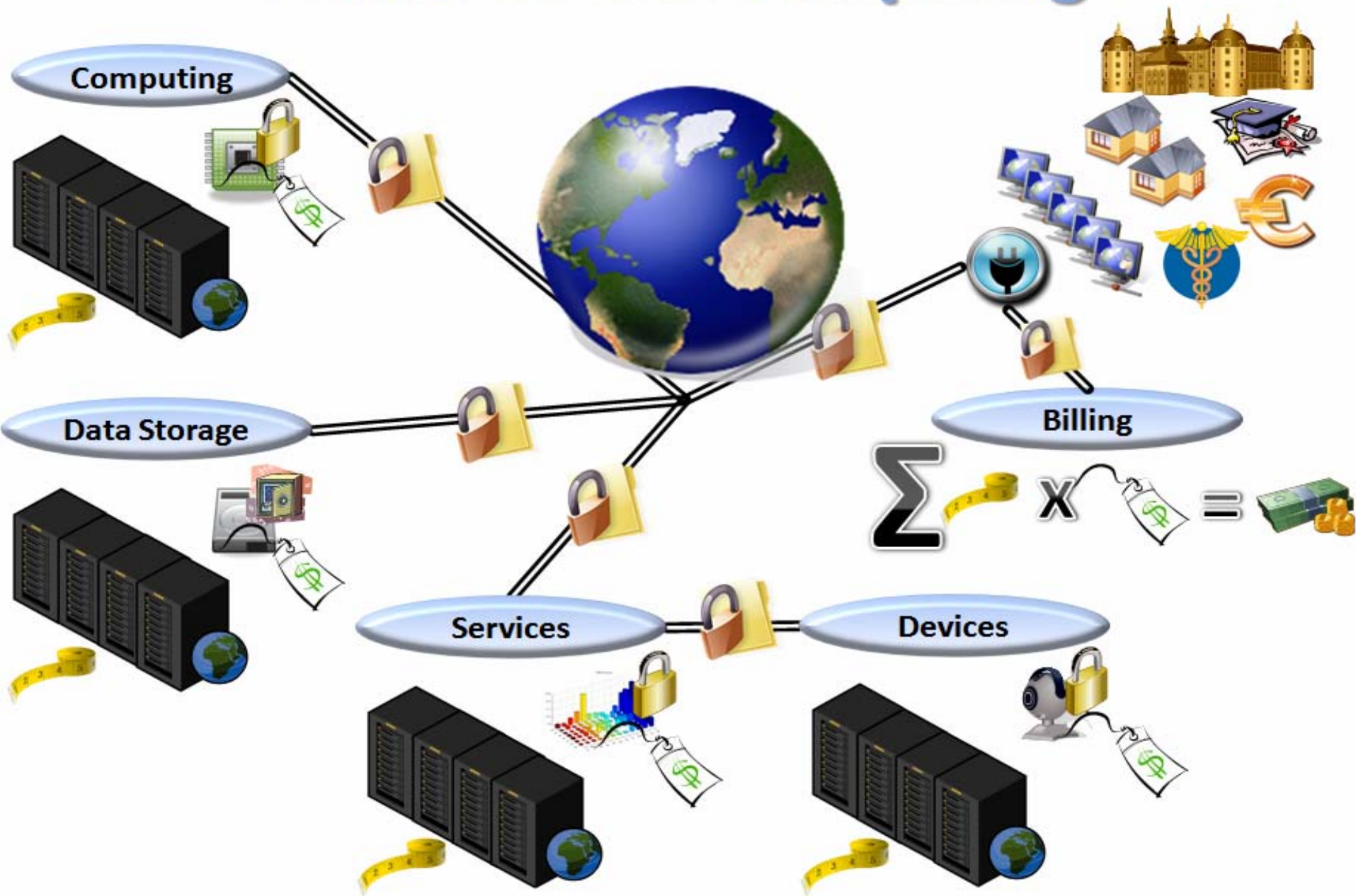
Intermediate results

- Grid usage by the service providers can not be estimated reliably
- On demand usage of Grid resources is the predominant advantage of the Grid
- Accounting still focuses on wall time and storage usage
- Billing will mostly build on monthly/quarterly invoices
- For service providers service certificates are necessary in order to keep administrative overhead to a minimum – otherwise every service customer would need a Grid certificate for each employee

Service Certificates



Future of Grid Computing





Thank you for your attention!



Project partners

Partners:



Associated Partners:

