High-speed Accounting for Virtual Resources

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- Accounting = Collect and store resource usage records
- **Value** of accounted for data depends on accounting demand

- Accounting provides **quantified** basis for
  - Accountability
  - Value creation
Data Center Scenario

**Bottlenecks:**
- Very high speed
- #Customers

**Risk:**
- Loss of information
- Granularity loss

**Jurisdictions:**
- Data retention
- Data protection
- Consumer protection
- Contract law

**Multi-tier value network:**
- Accountability, trust?
- Charging and billing:
  - Value in terms of revenue

**Benefit > Costs?**
Conclusions

- Reliable, working accounting system is key
- Basis for accountability and value creation
- Multiple demand drivers – resulting tension fields

- Accounting essential for value creation
  - But consider **costs** as well!

- Managerial, technical feasibility
  - **Feasible**, but many challenges ahead!