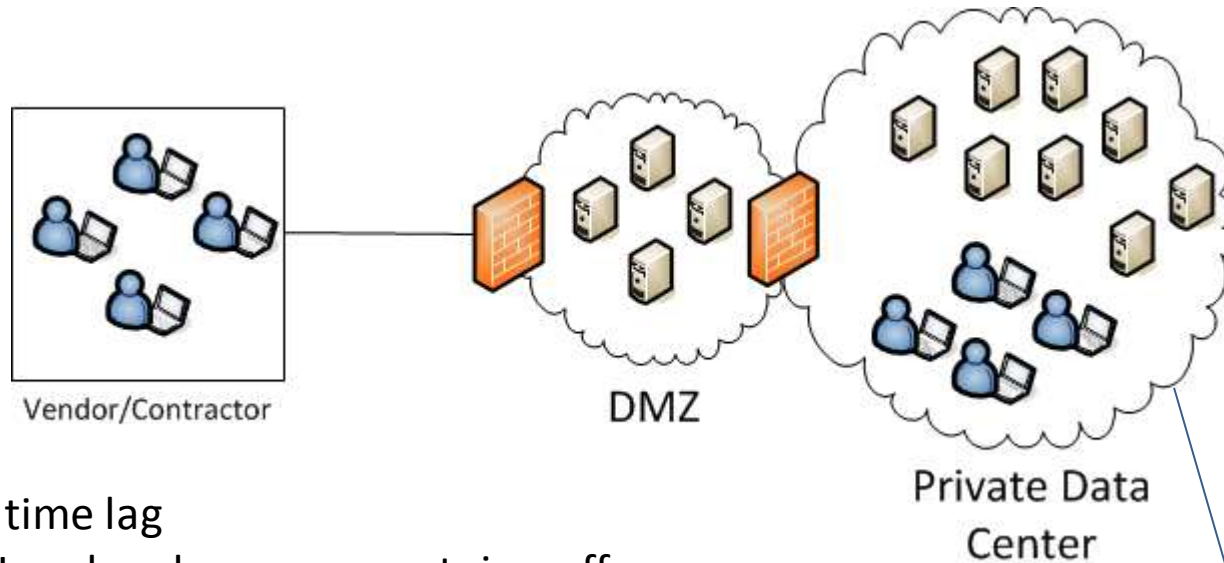


# Collaborative Computing on the Cloud

Google Docs for Semiconductor Design?

# Collaboration Today



- Long time lag
  - Legal and management sign-off
  - IT configuration
  - Software installation
- High overhead
  - License management
  - Access control
  - IT maintenance
  - Version synchronization
- No scalability
  - Geographic
  - Compute, network, and storage

Maybe some virtualization  
Automatic Provisioning and  
Scaling less likely

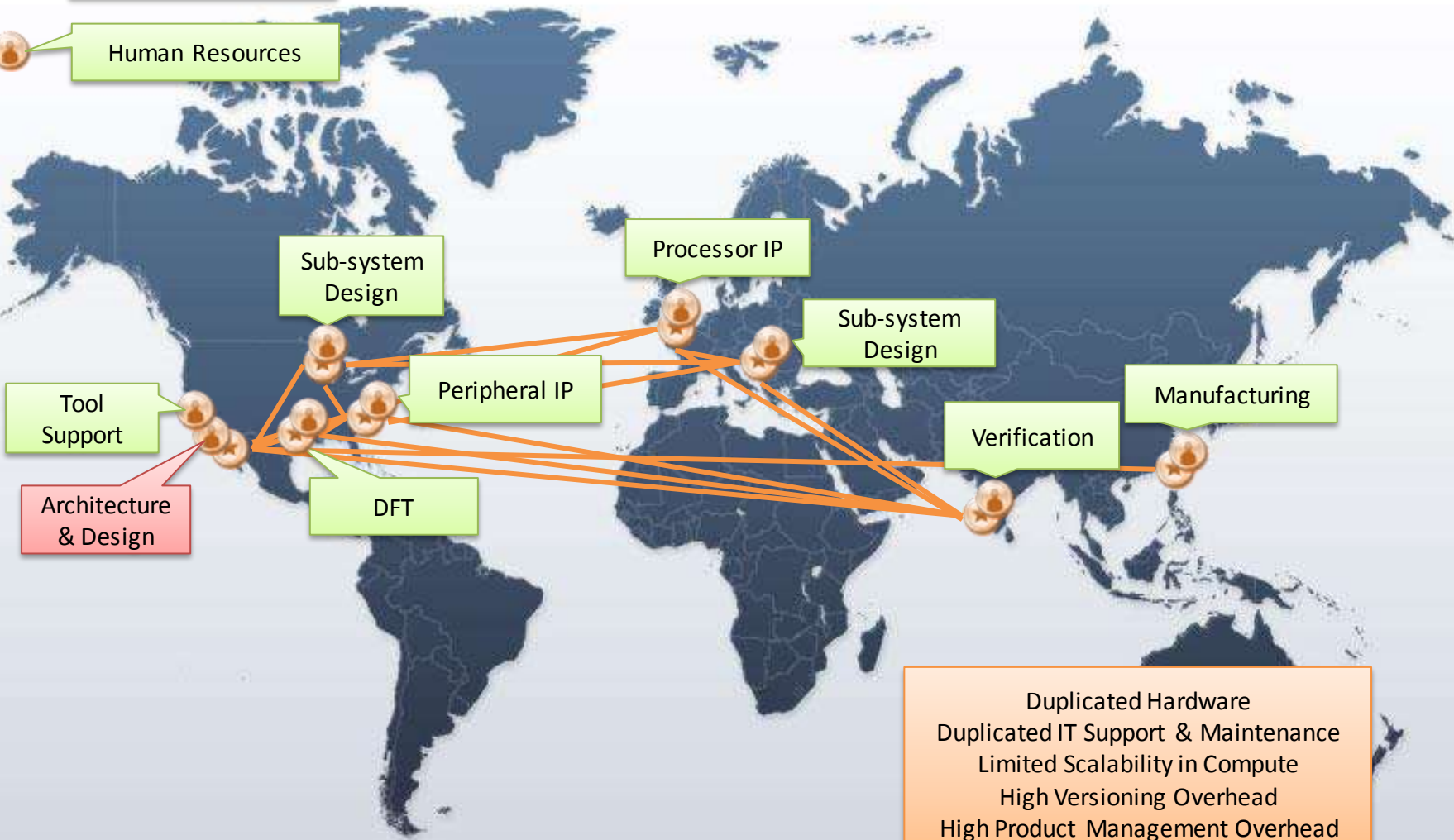
# Small Scale Scenario: Private Cloud



# Business Scale Scenario: Lots of FTP

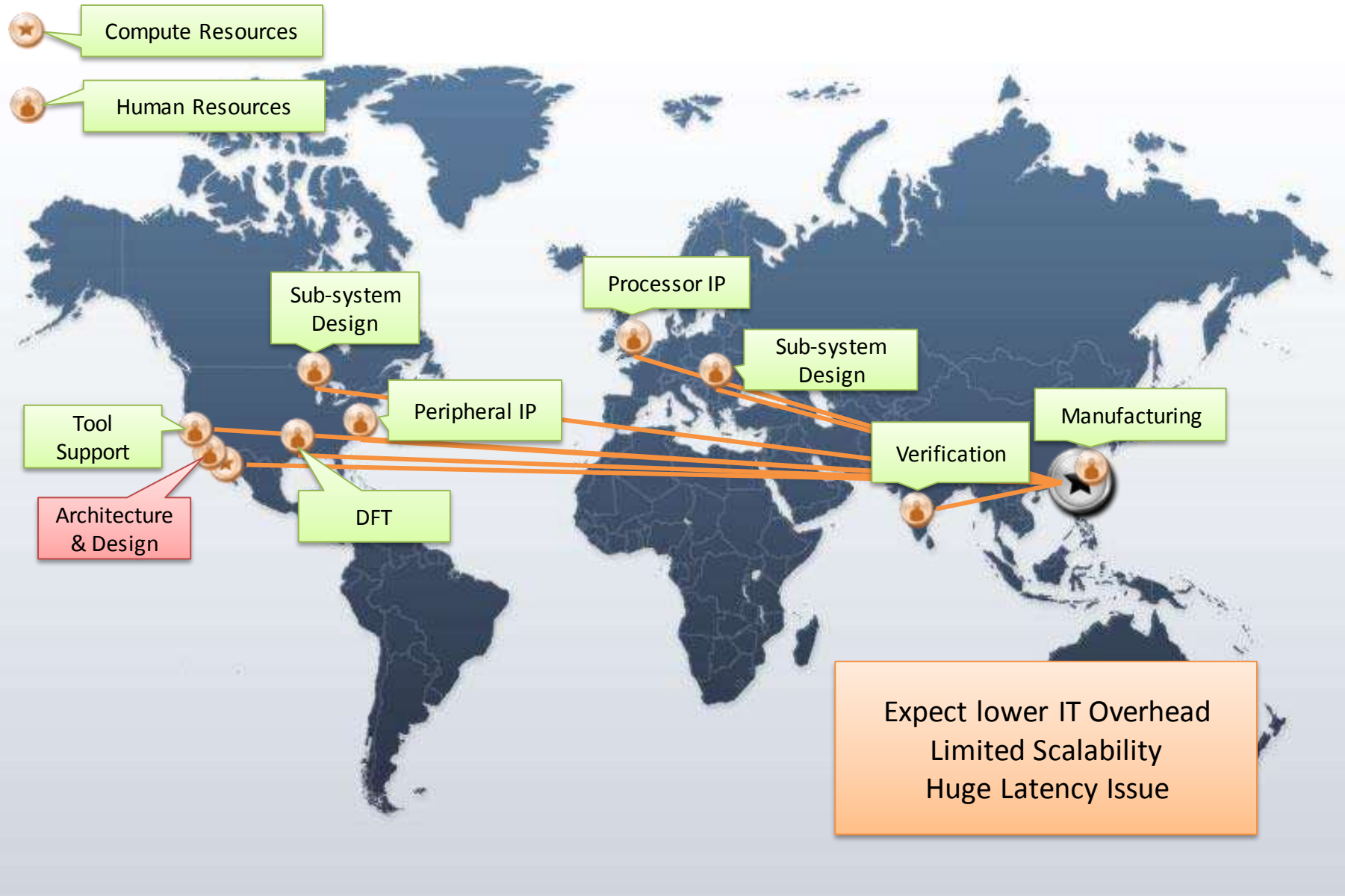
★ Compute Resources

👤 Human Resources

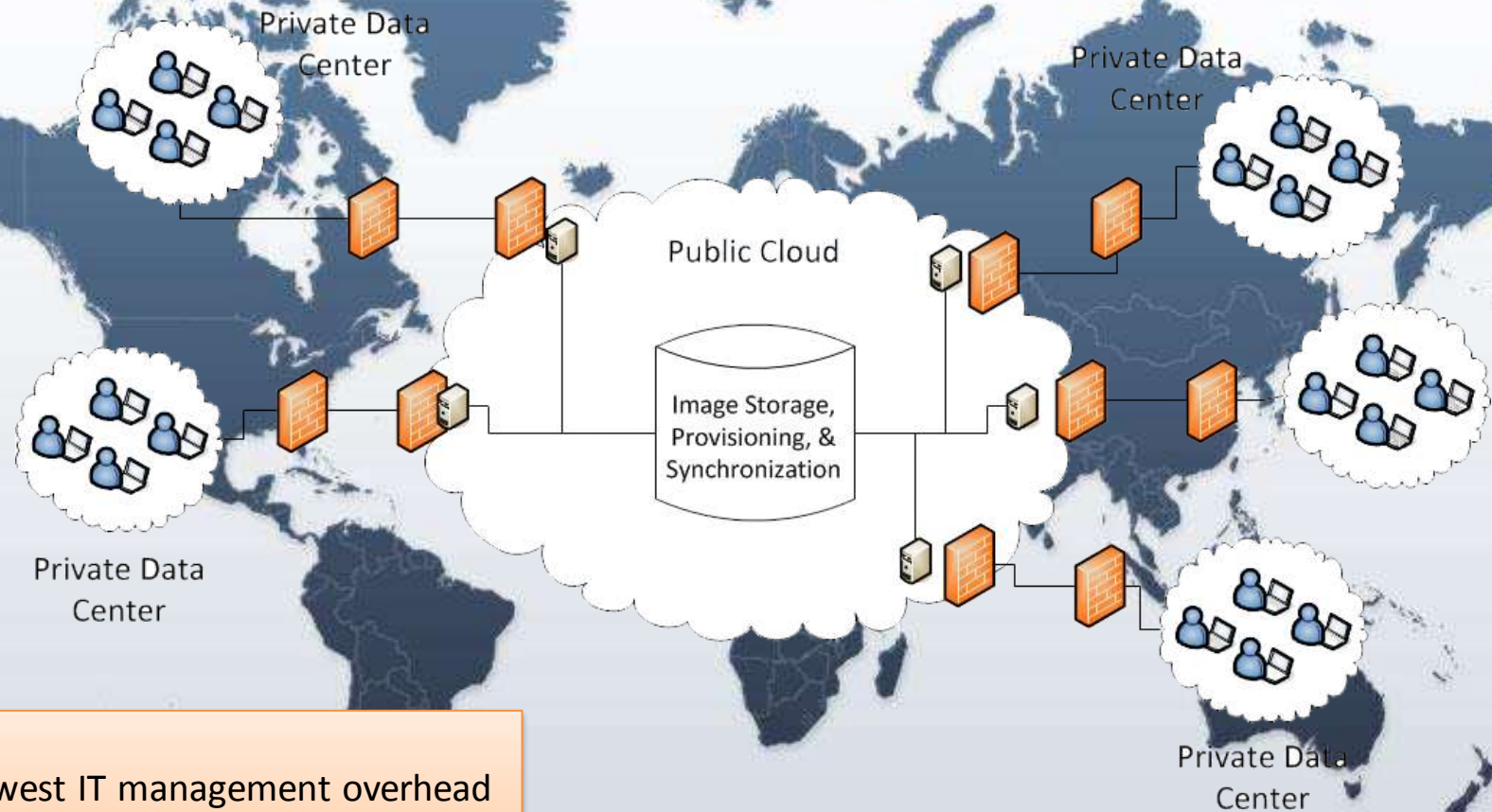


Duplicated Hardware  
Duplicated IT Support & Maintenance  
Limited Scalability in Compute  
High Versioning Overhead  
High Product Management Overhead

# Private Compute Centralization



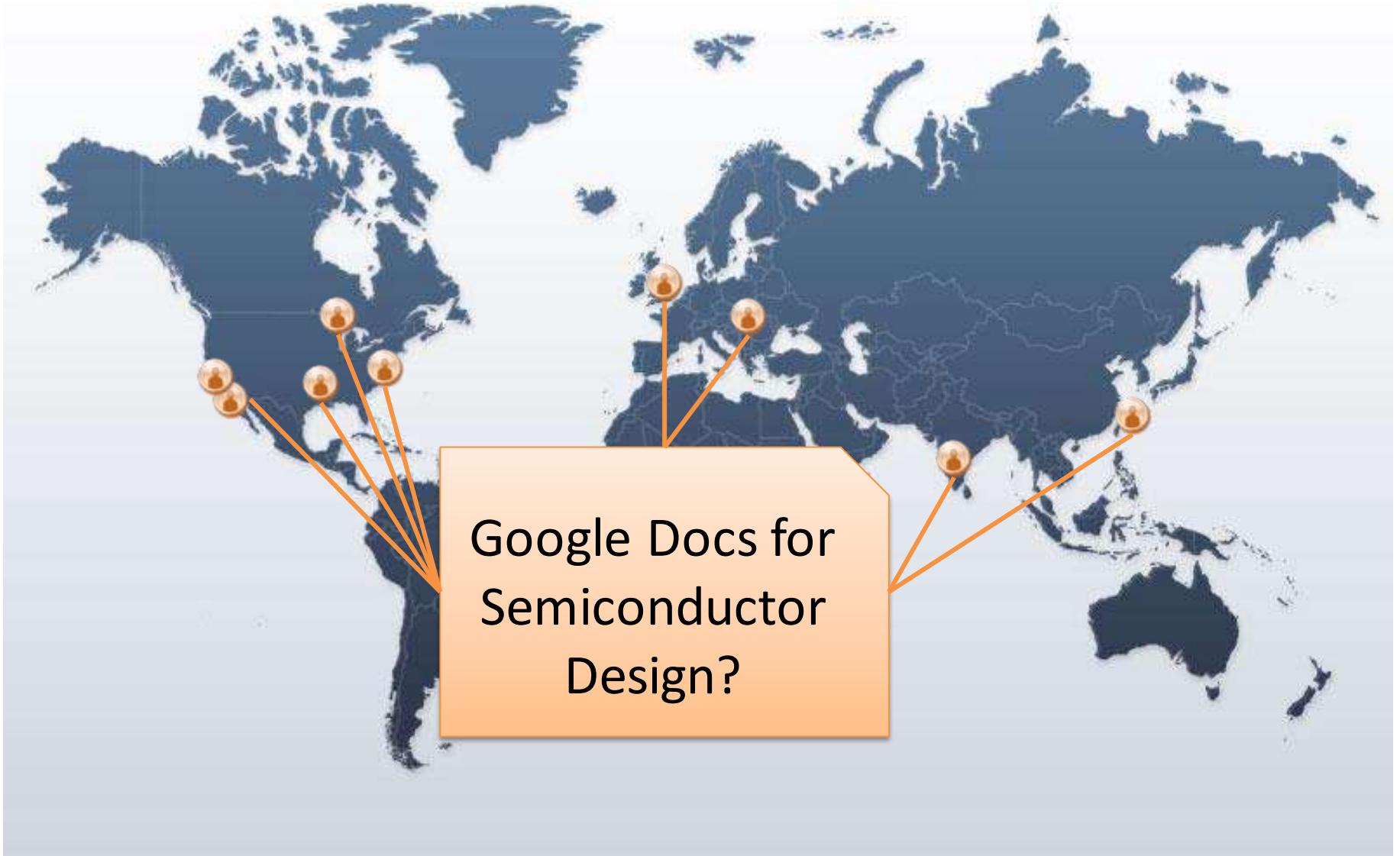
# Federated Cloud



Lowest IT management overhead  
Maximum scalability  
Managed Latency

# Why is EDA stuck in 1995?

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# Consumerization of the Enterprise

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- Self Serve Enterprise
- Easy to use
- Instant Gratification
- Modern Design (UX)
- Real-time Interaction and Engagement
- Social

Productivity

Efficiency

Satisfaction