

# Control Systems

# WCG

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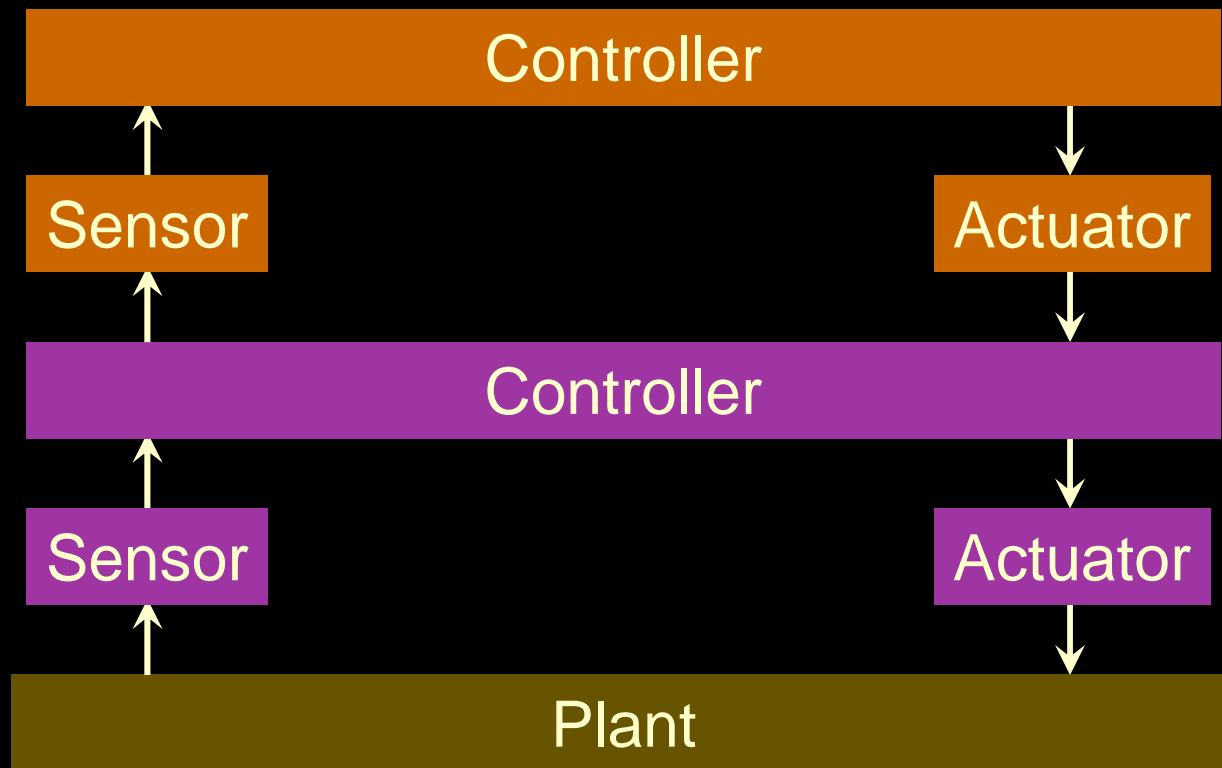
**Thomas Losert**

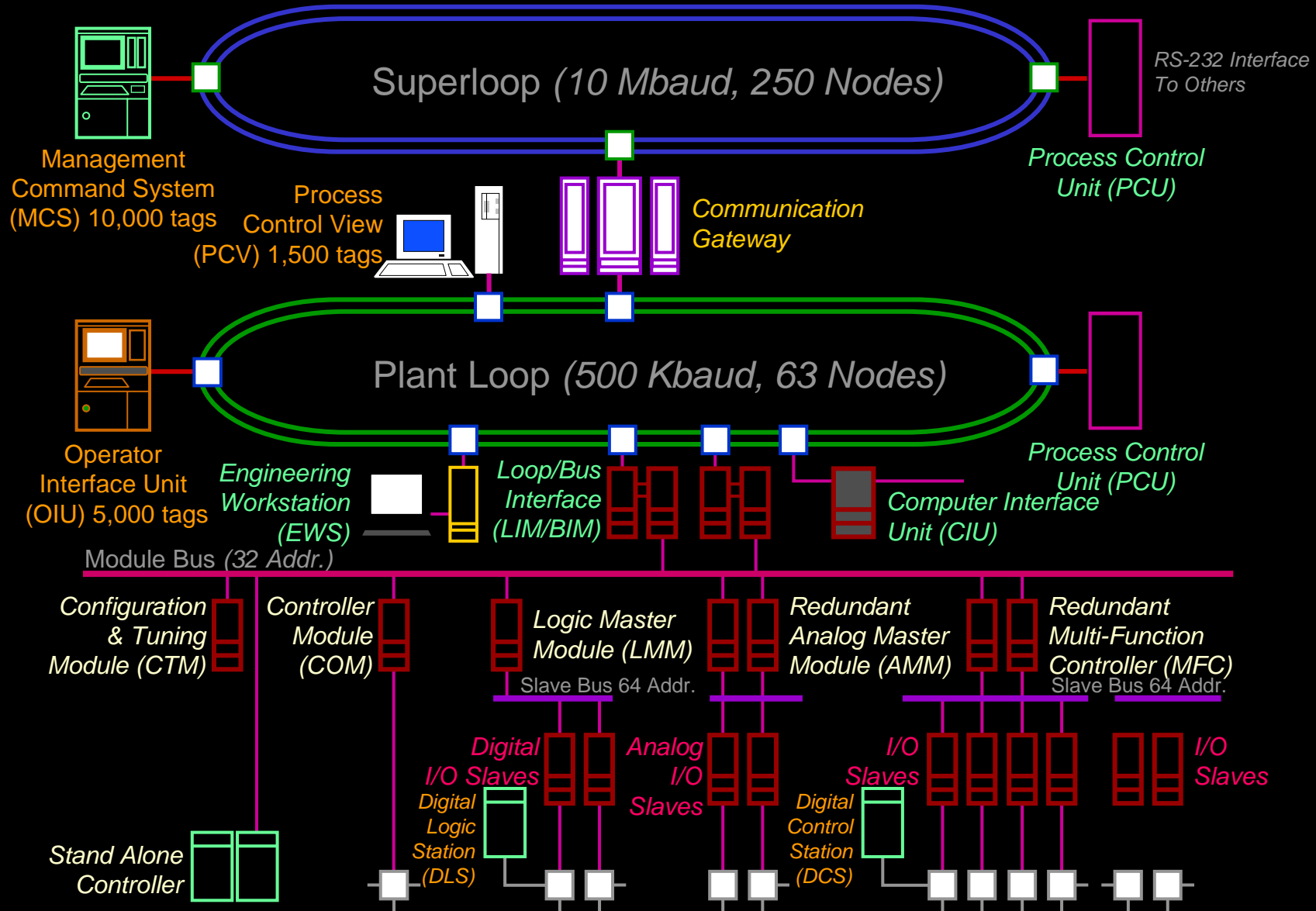
Vienna University of Technology

**OMG Technical Meeting**

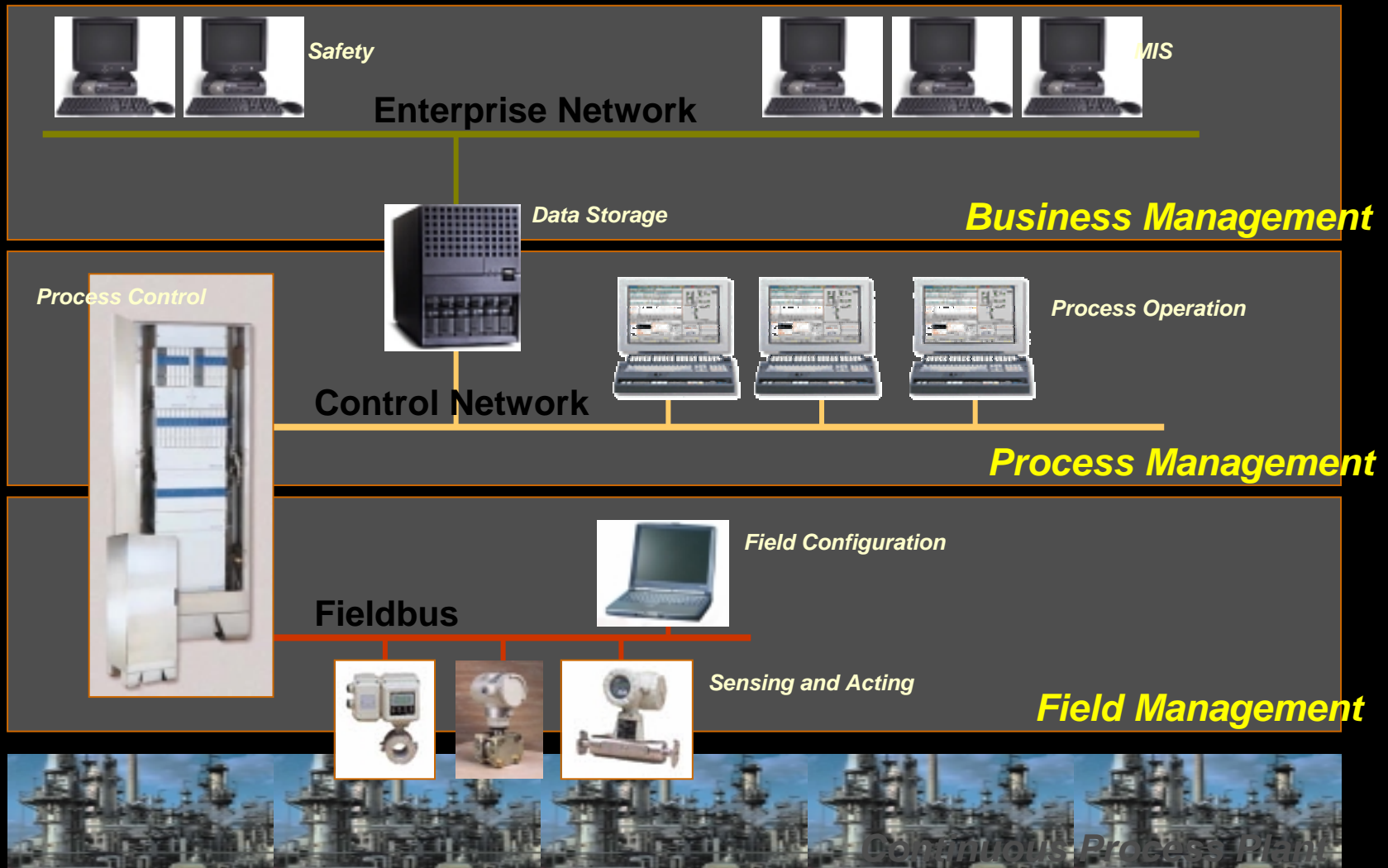
Washington, Nov. 2002

# What are Control Systems ?





# Software Intensive Control



OMG Technical Meeting  
Washington, Nov. 2002

# Is CORBA Well Suited ?

- Real Control Systems are composed of **Distributed Real-time Objects**
- Major Drives
  - Complexity
  - Modularity/Composability
  - Change

# The Ongoing Trend in Control

- Technological barriers are disappearing
- Standardized interoperable target architectures
  
- Single modeling of control and plant
- Model based generation of systems
  - of simulators
  - of controllers

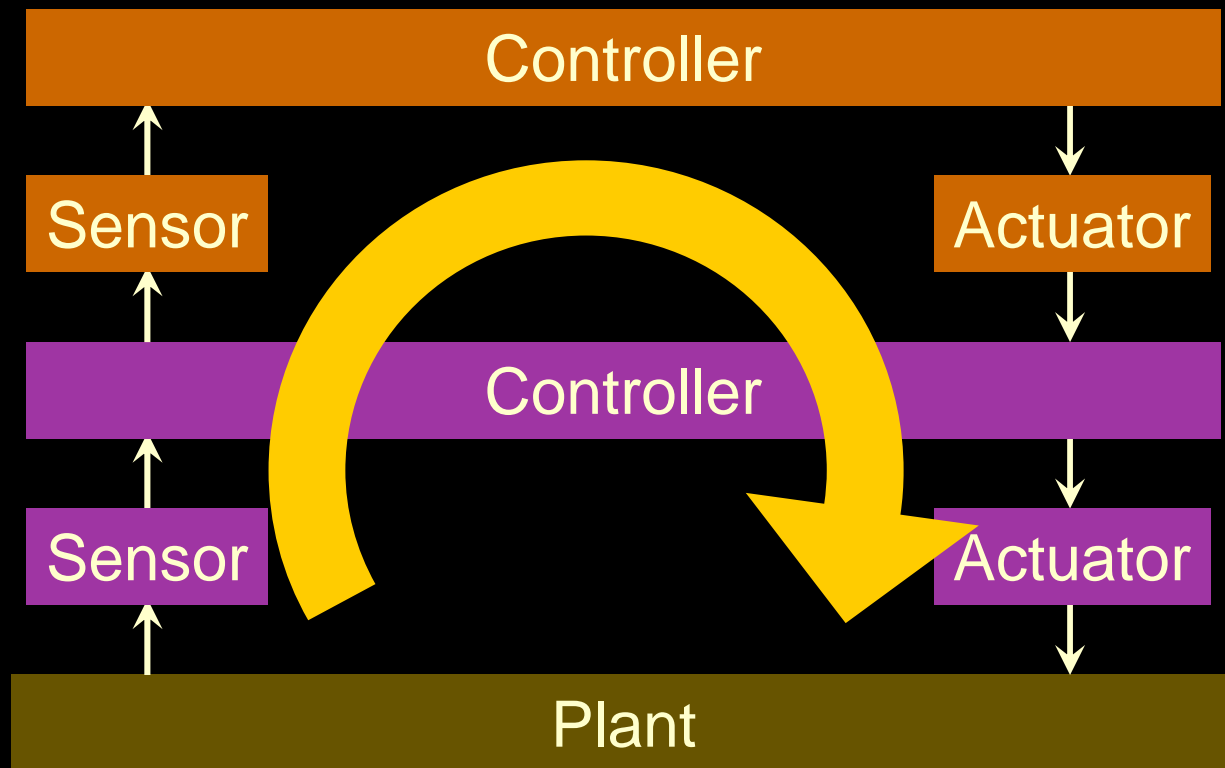
**MDcontrolA?**

# Relevant Specs

- CORBA, RT, Minimum, Services, etc.
- DAF
- DAIS
- Smart Transducers
- HDAIS
- Data Distribution
- etc

Just Pieces of  
Control Systems ?

# Closing Loops





# Possibly Open Issues

- **New Interfaces** for Control Systems
- Hard Real-time Predictability
  
- New (not politically correct?) issues
  - New IDL
  - New RT Interoperability Protocol
- Deeper problems ?
  - ET vs TT

# The Question

- Do we need a **Control Systems Working Group** to address all these topics in an integrated way ?
- Positioning
  - Domain (from core perspective)
  - Horizontal (from domain perspective)