

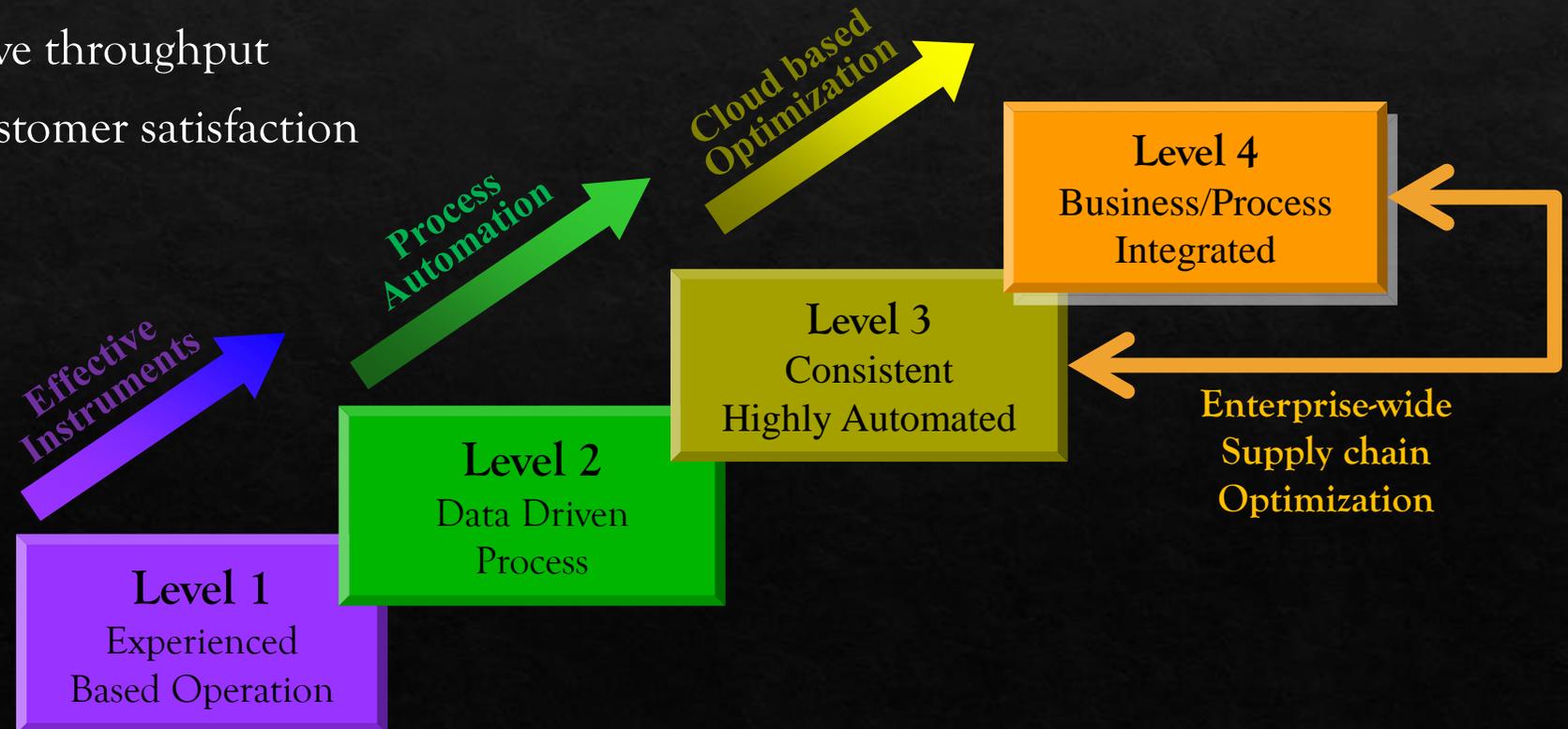
Process Control & Digitalization

Our Process Control Technology Development Model:

Experienced-based/chaotic → High automation, business/process integrated

Business Goals

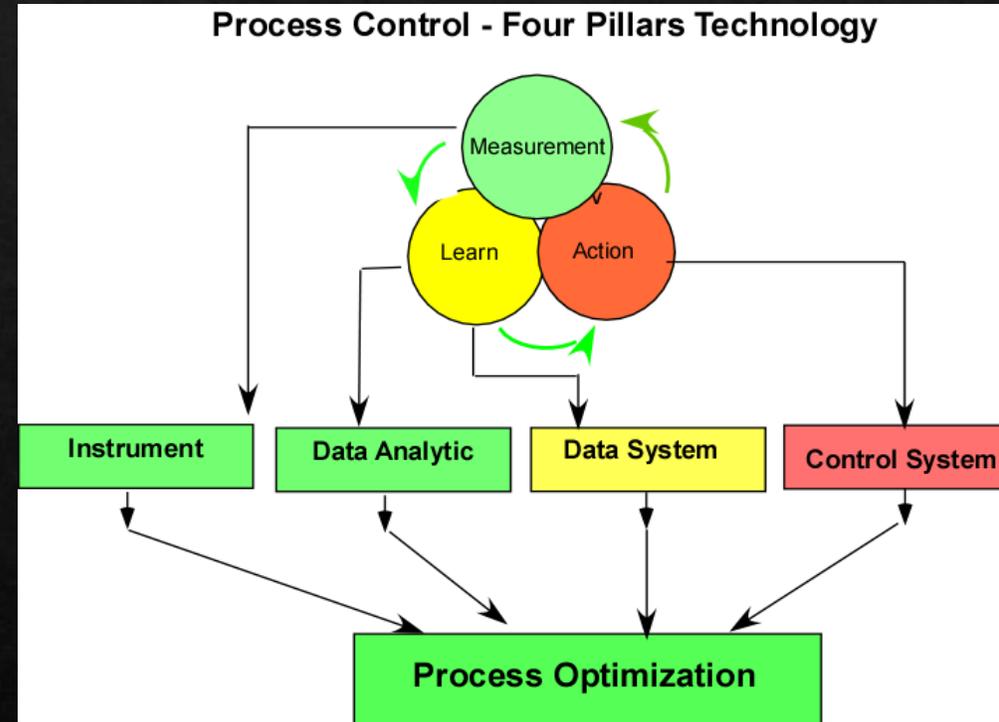
- Enhance process stability
- Optimize equipment to improve throughput
- Ensure product quality and customer satisfaction



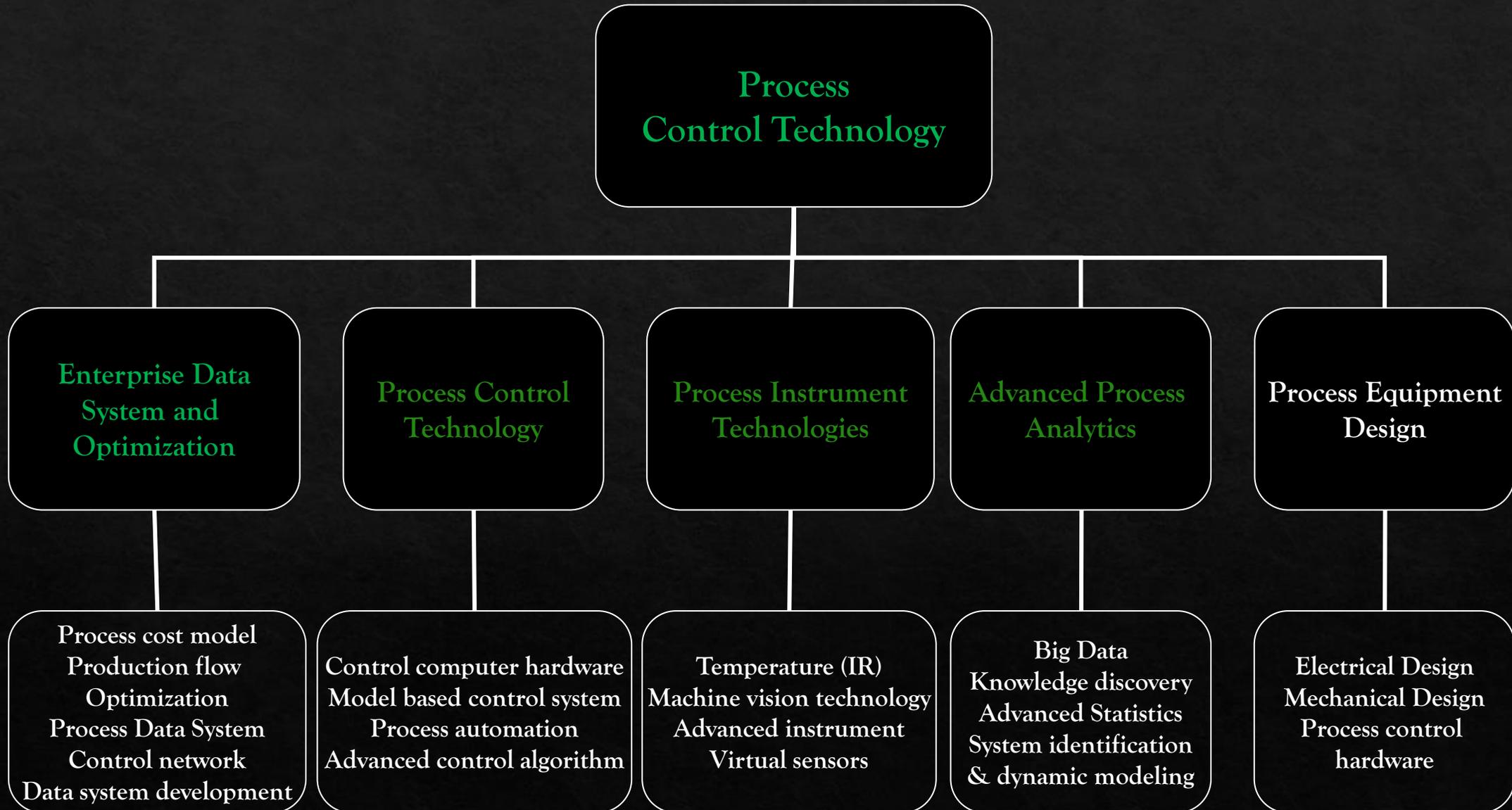
Our definition of the Key Components of Process Control

Four Pillar-Technology

- ◇ Instrumentation
- ◇ Data Technology
- ◇ Control System Platform (Hardware)
- ◇ Data Analytics



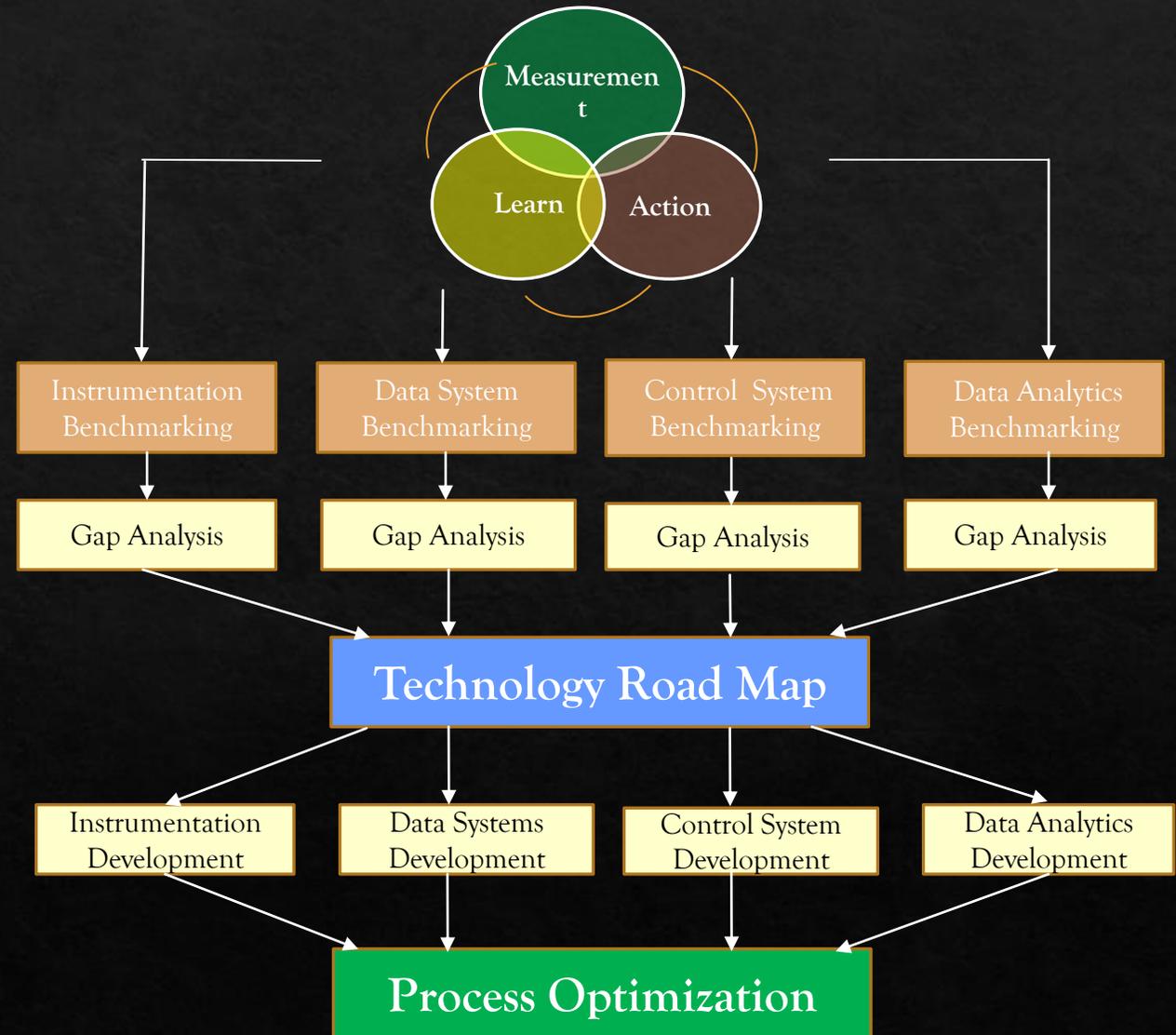
Example of a Modern Process Control Organization's Core Competencies



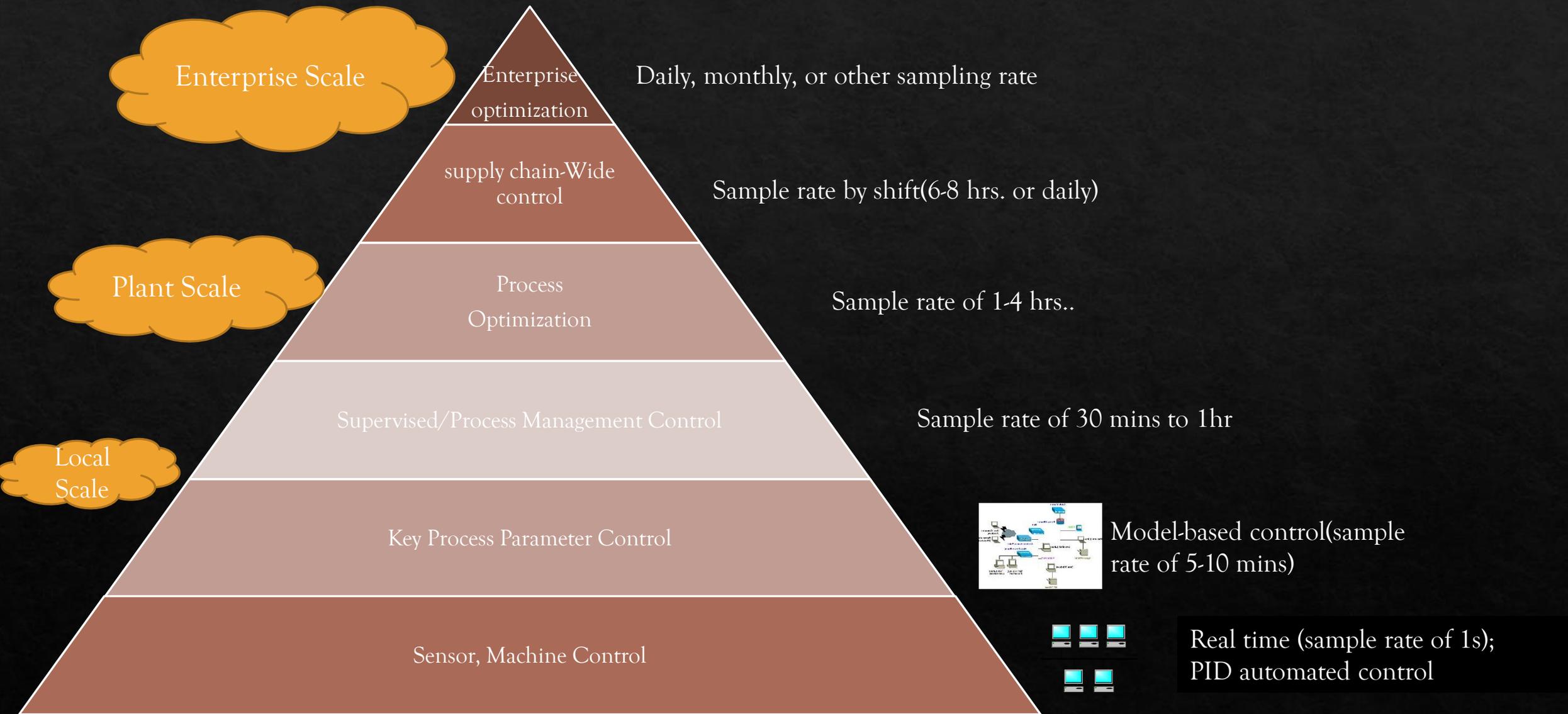
Example of New Process Control Technology Development Approach

Key Stages

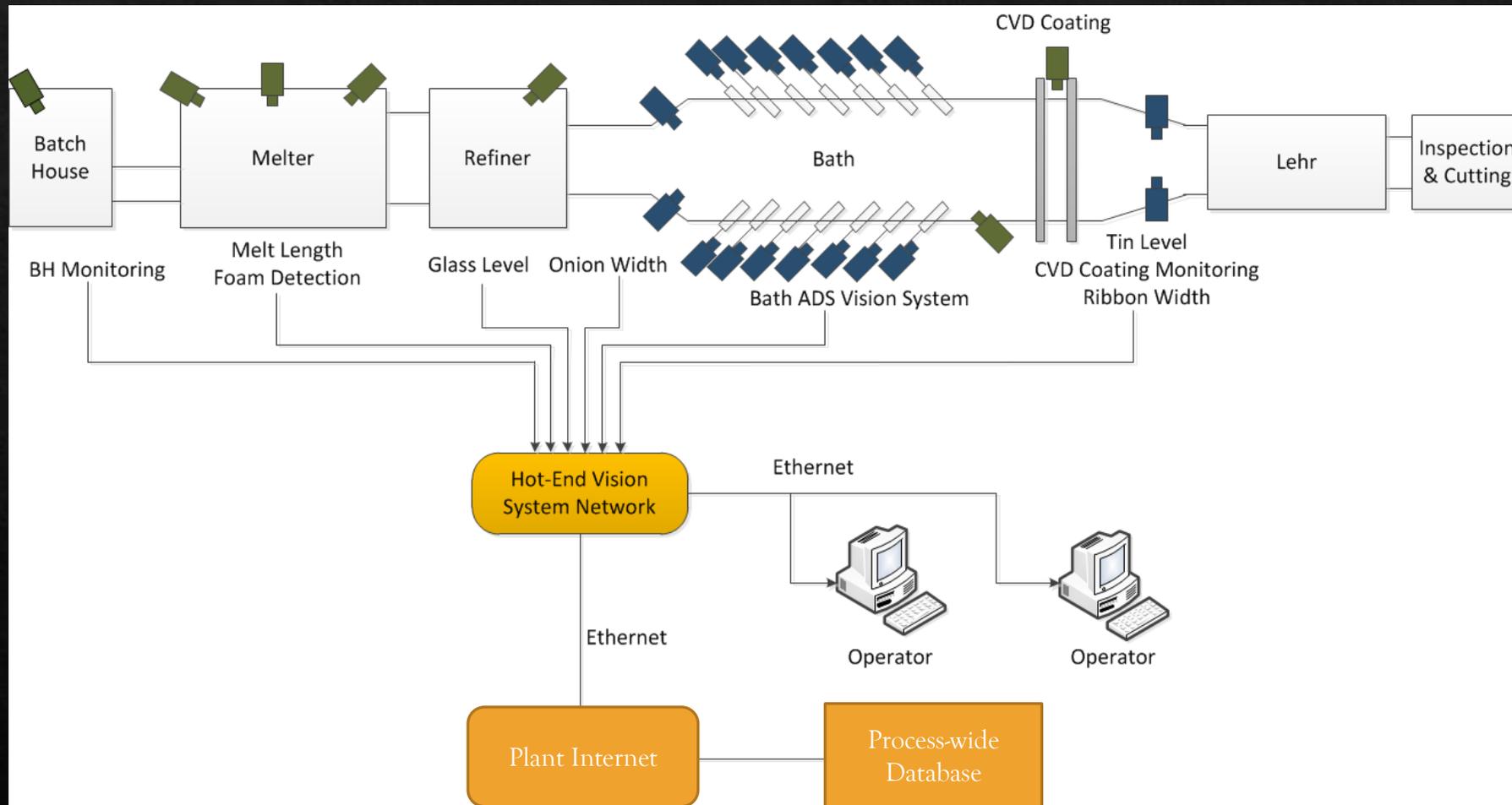
- ◆ Benchmarking 4 key technical areas
- ◆ Conduct gap analysis to identify needs
- ◆ Develop technology roadmap
- ◆ Develop Key projects within given resources



Example of A Manufacturing Process Cloud Data Strategy



Example of An Advanced Process Control System Float Glass Process



Example of Data Analytics Technology

