



*ANSI / ISA S95*  
*The role of standards*  
*in e-business demand*  
*fulfillment*

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Entegreat, Inc.  
ISA SP95 Chairman

## *Topics for Today*

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- What is SP95 / Status of S95
- Why do we need SP95
- S95 and S88 relationship
- S95 Functional enterprise-control model
- S95 General model of operations
- S95 Object Models
- S95 ERP / Supply Chain Architecture

## *What Is ISA/S95 ?*

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- An Instrumentation, Systems and Automation Society consensus committee defining Standards and Practices SP95 "Enterprise-Control System Integration"
- ANSI/ISA-95.00.01-2000 "Enterprise - Control System Integration - Part 1: Models and Terminology"
- ISA dSP95.02 "Enterprise - Control System Integration - Part 2: Data Structures and Attributes"
- ISA dSP95.03 "Enterprise - Control System Integration - Part 3: Models of Manufacturing Operations"

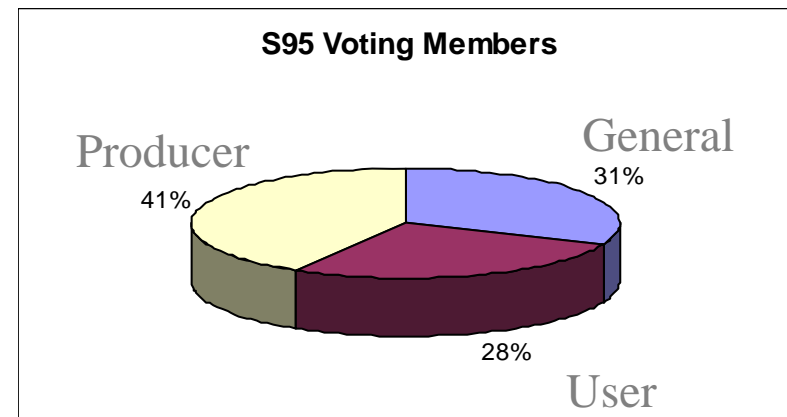
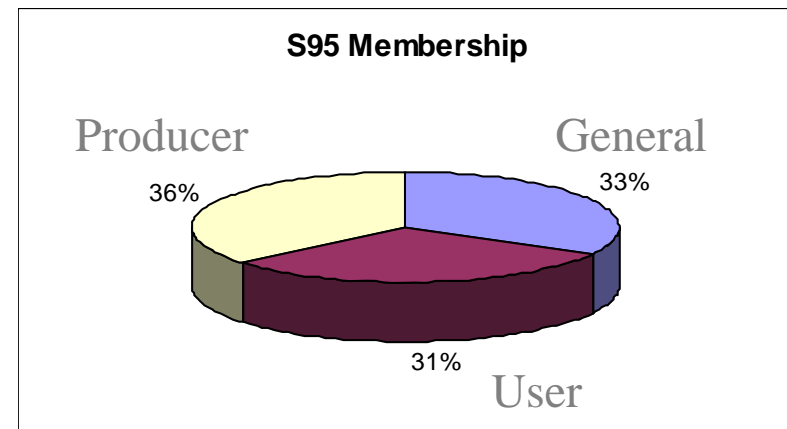
Vendors



General  
Users

## S95 3/12/01 Membership Balance

- No one membership group can dominate
  - Total Members 179
  - Voting members 29

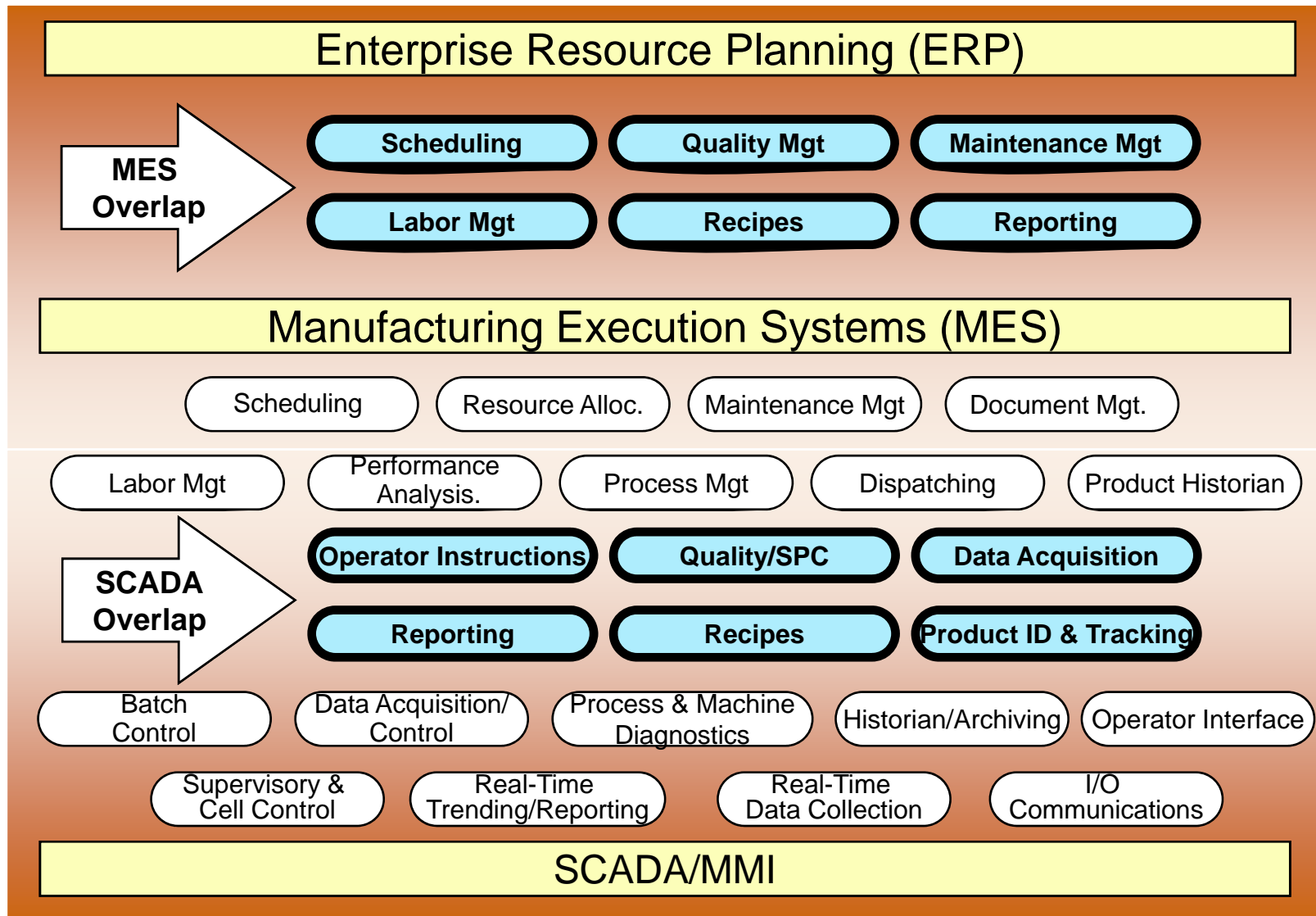


## *Status of S95*

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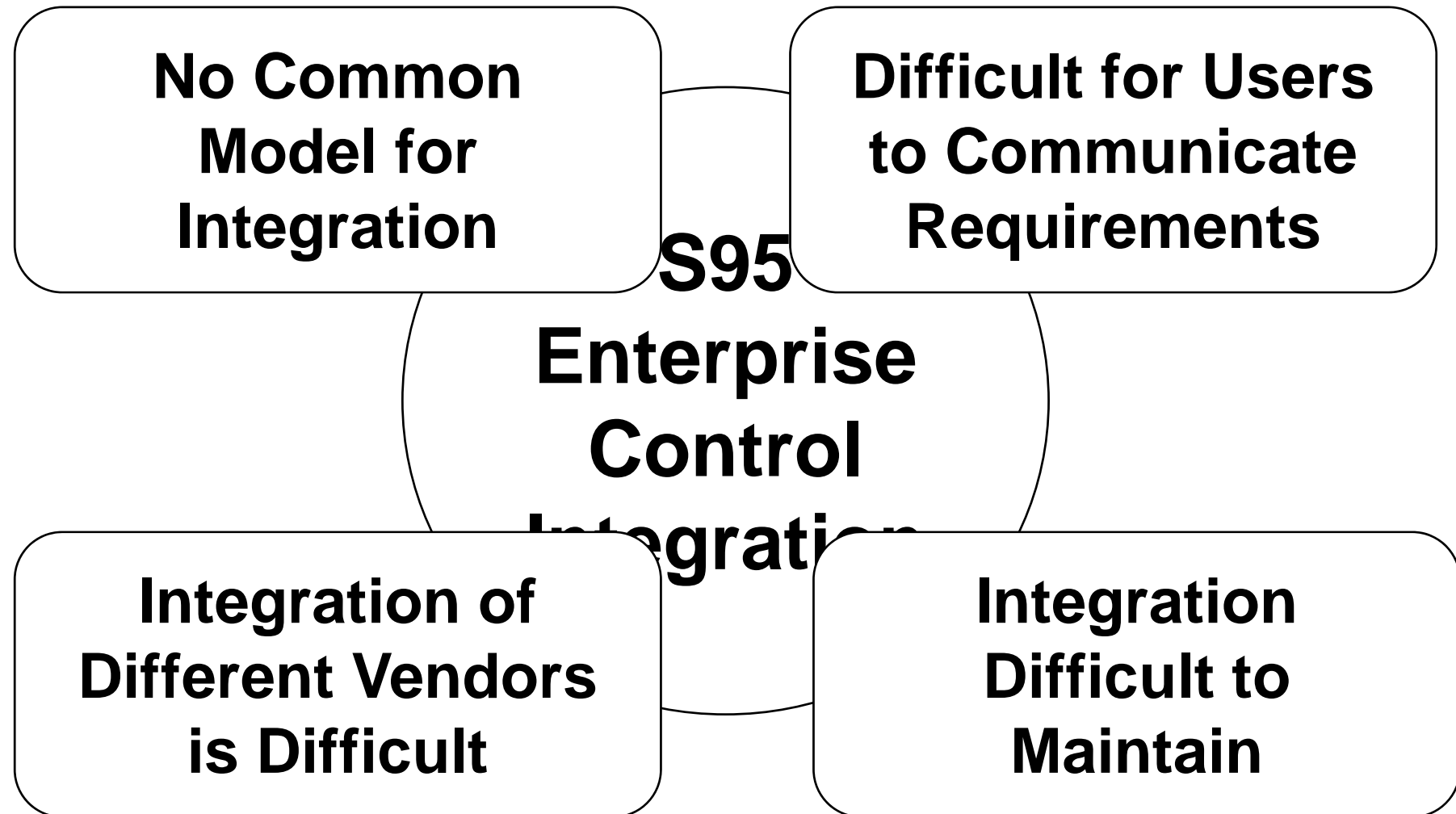
- ANSI/ISA-95.00.01-2000 approved 15 July 2000
  - Joint IEC / ISO review
- dS95.02 committee released for ballot March 2001
- dS95.03 draft 3 available from ISA web
  - Manufacturing operations & control
- Next meeting May 22-24
  - Cary NC – hosted by Propack-data

# The Need for a Standard

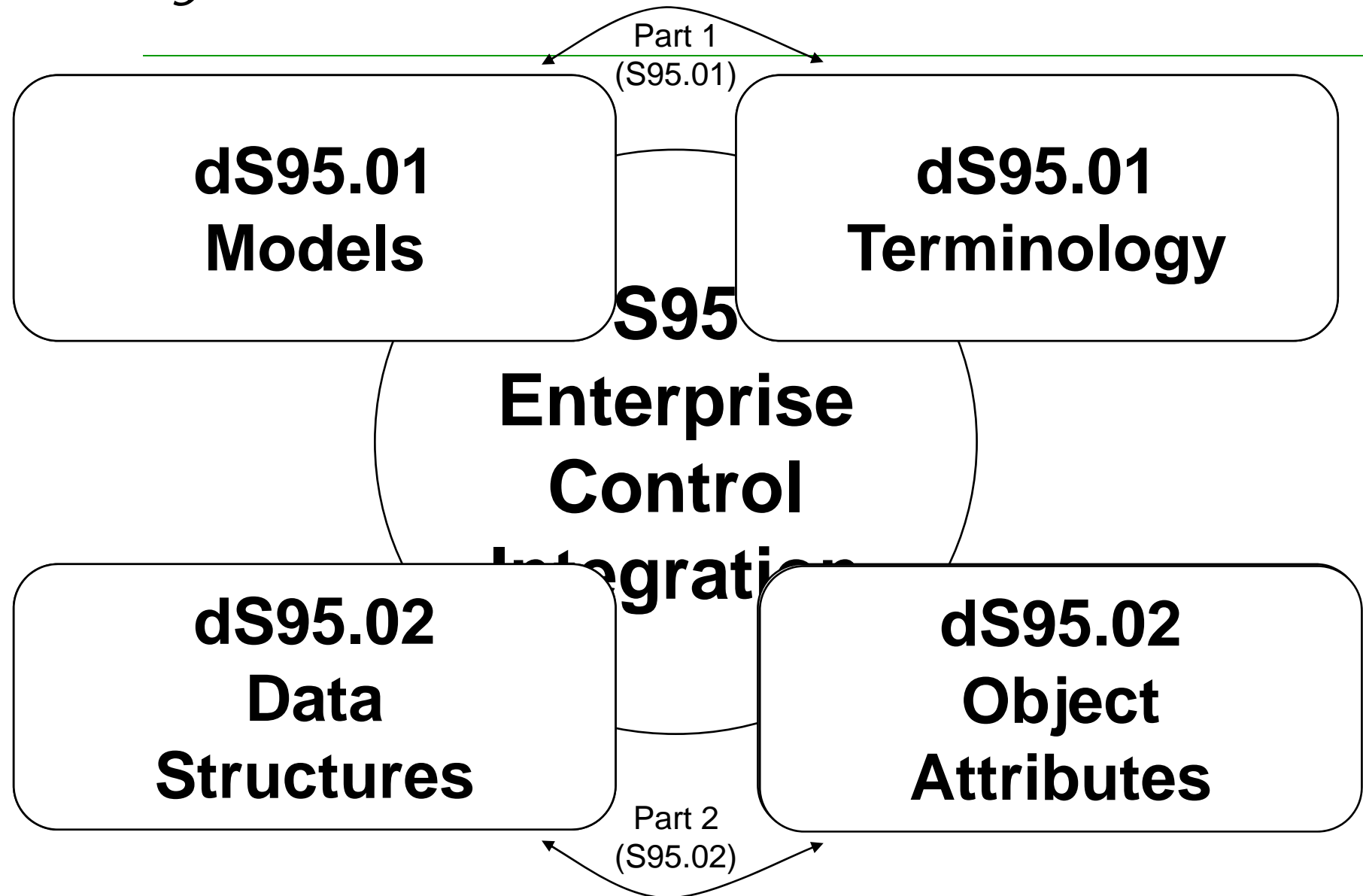


## Why SP95

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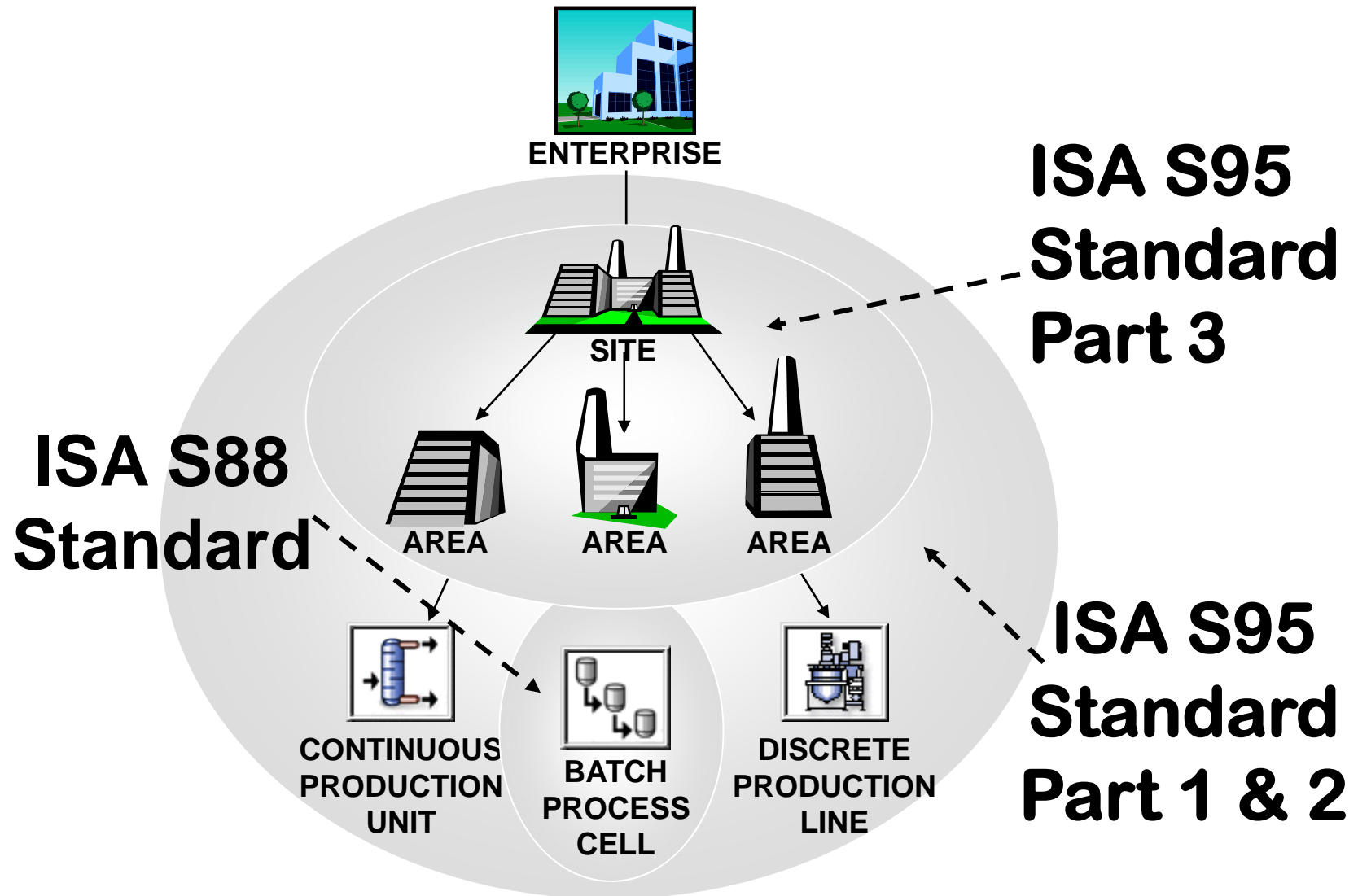


# Why SP95

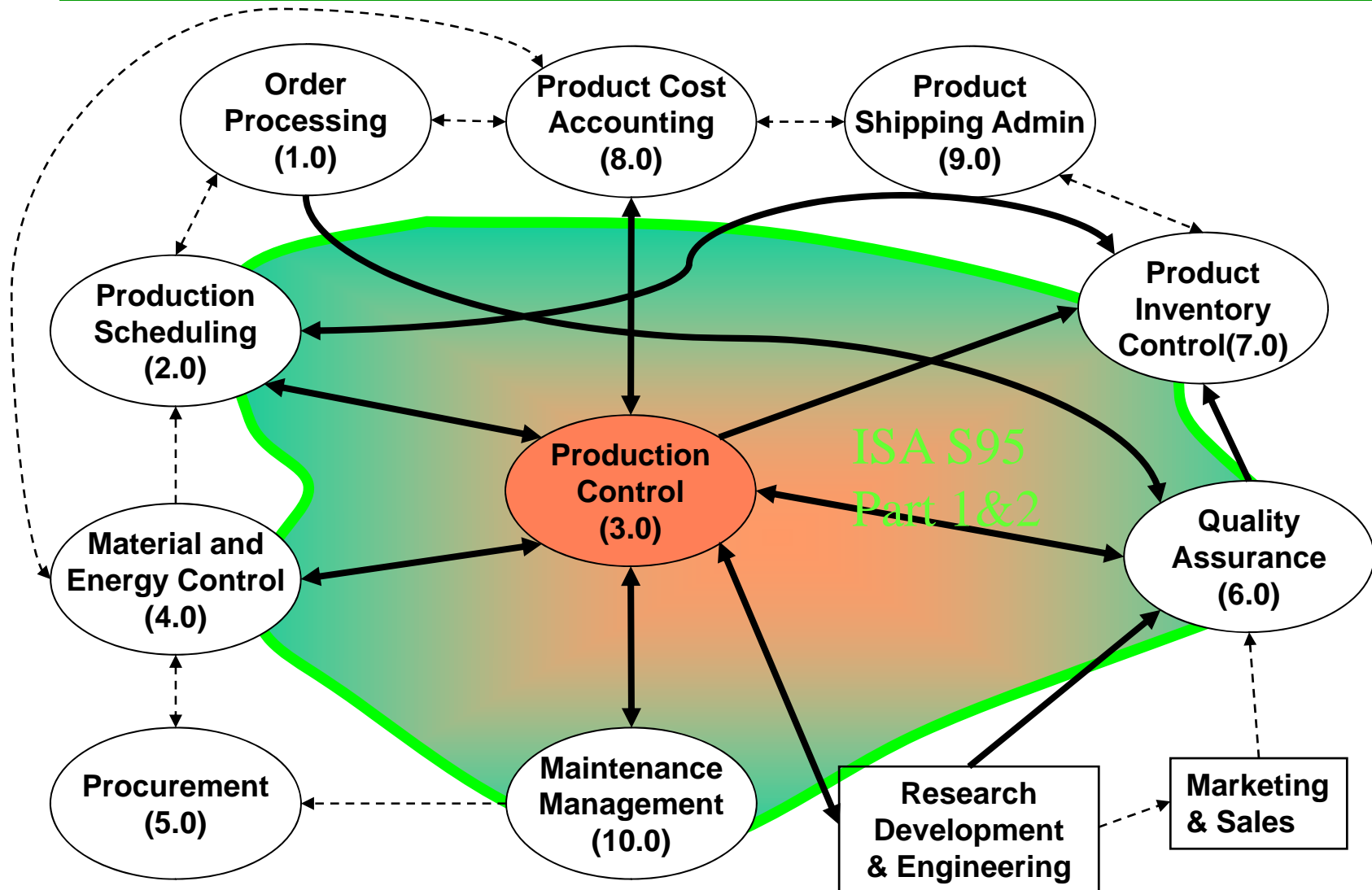




# ISA S88 and S95 Standards Scope

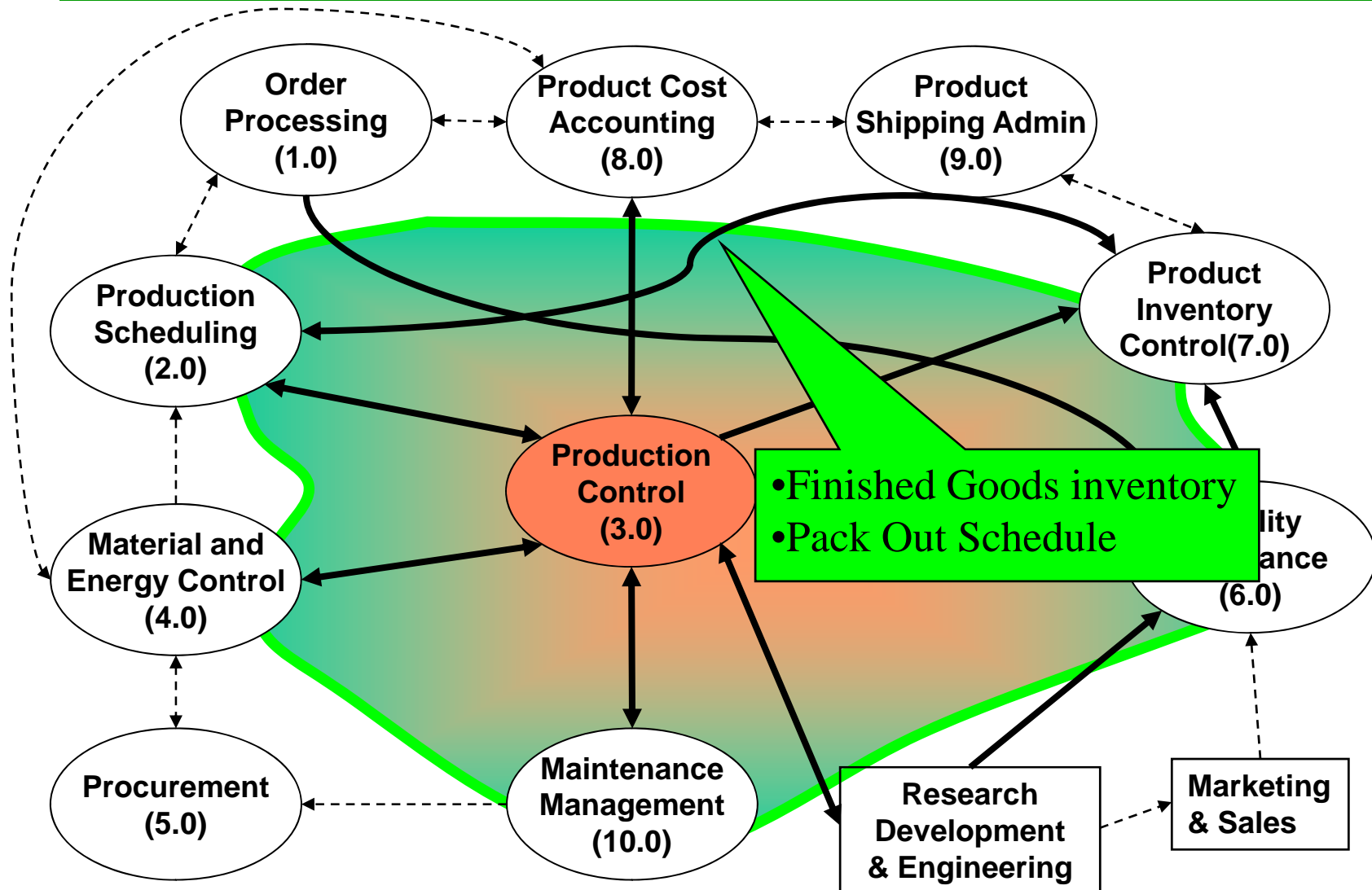


# Functional Enterprise-control Model



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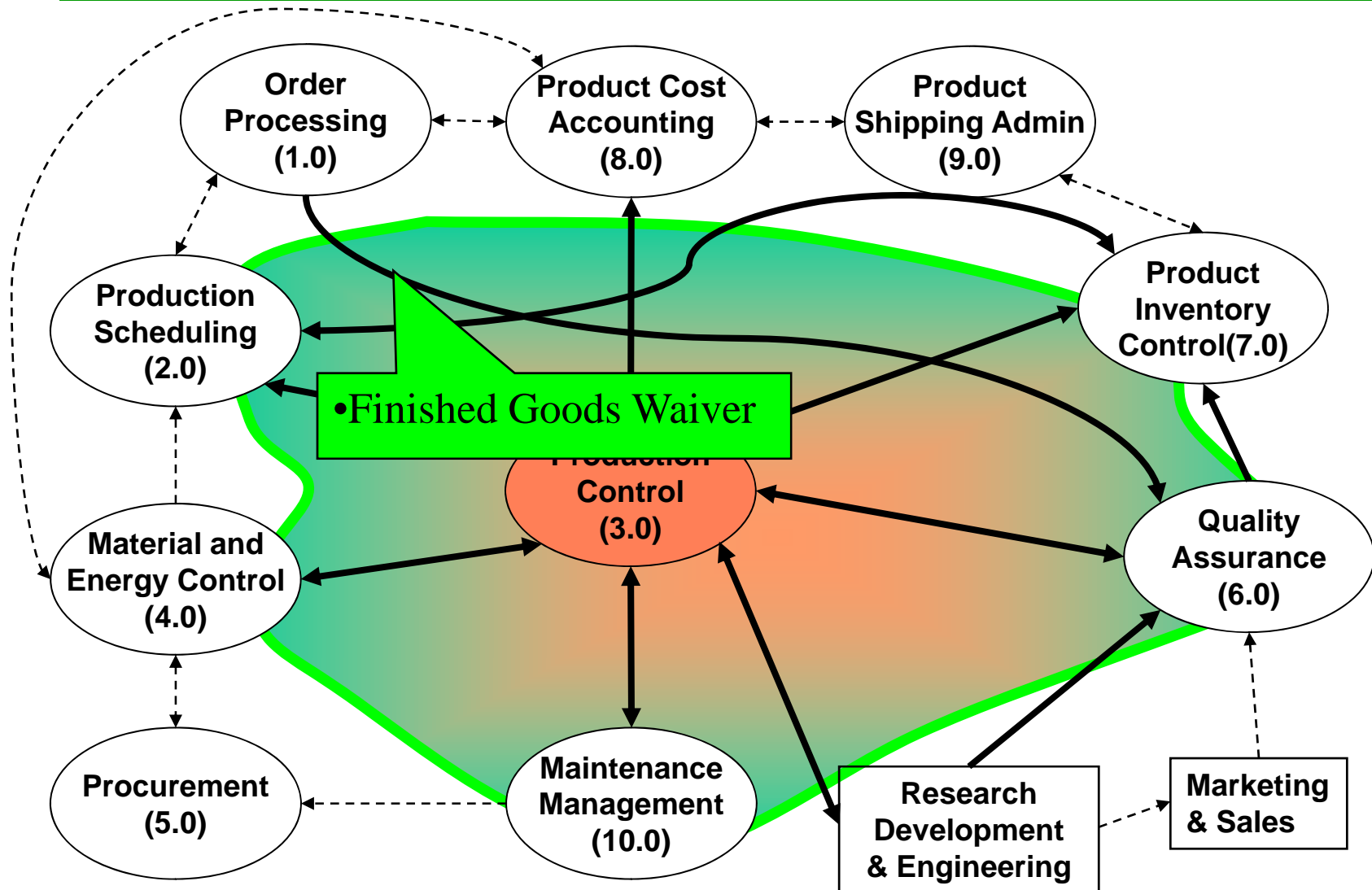
# Scheduling - Inventory



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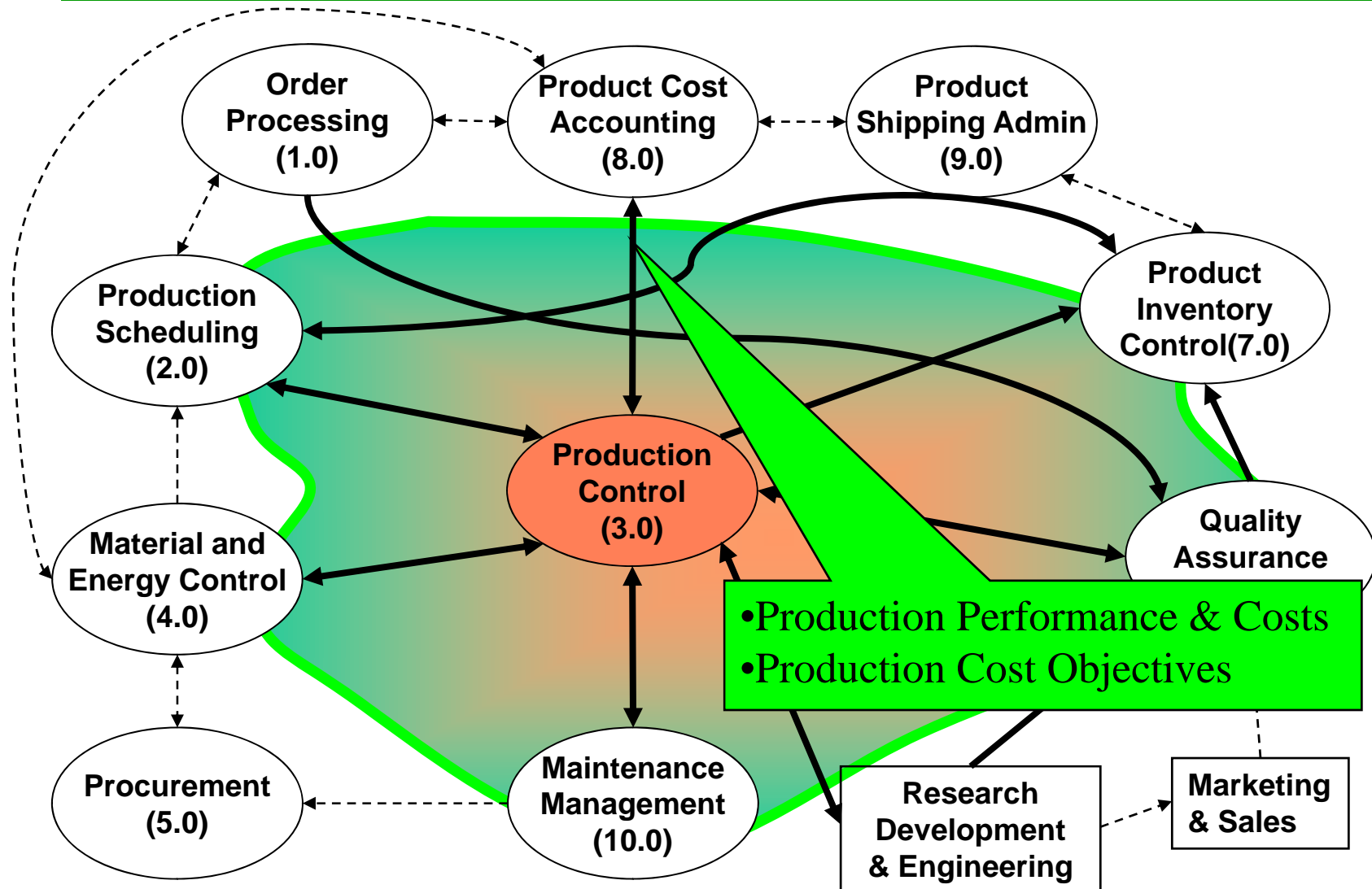
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# Order Processing - Quality



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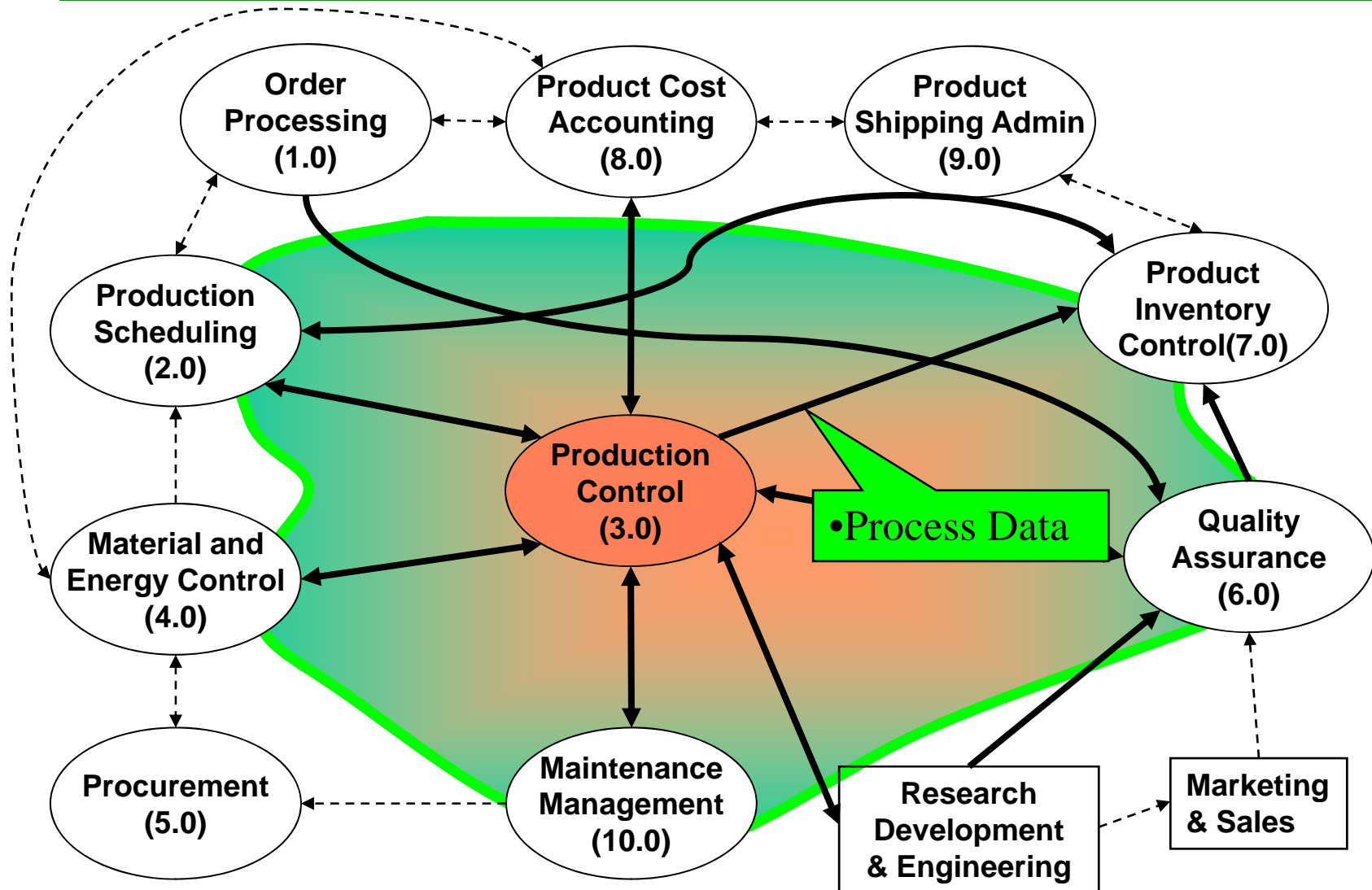
# Product Cost – Production Control



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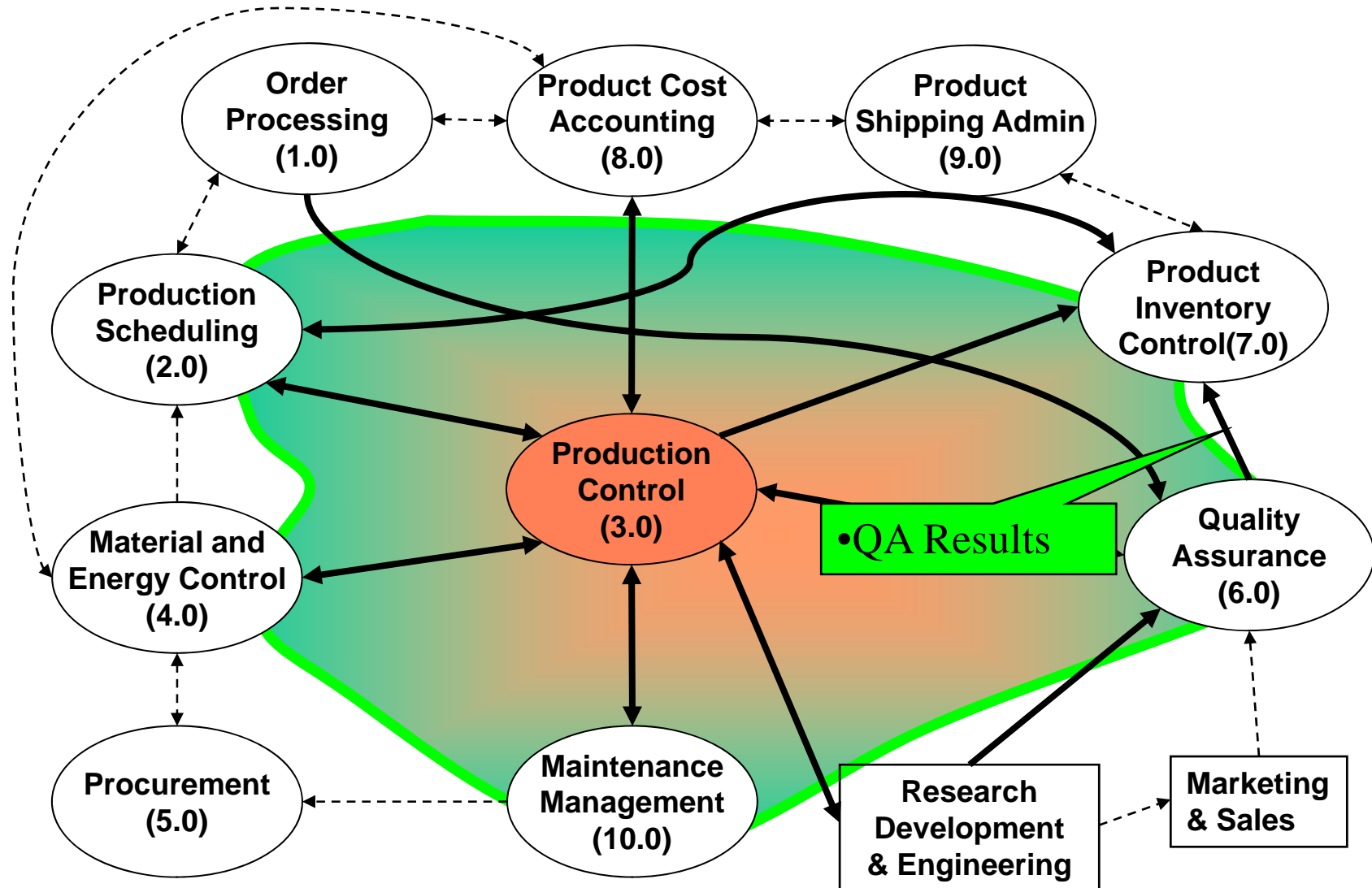
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# Production Control - Inventory



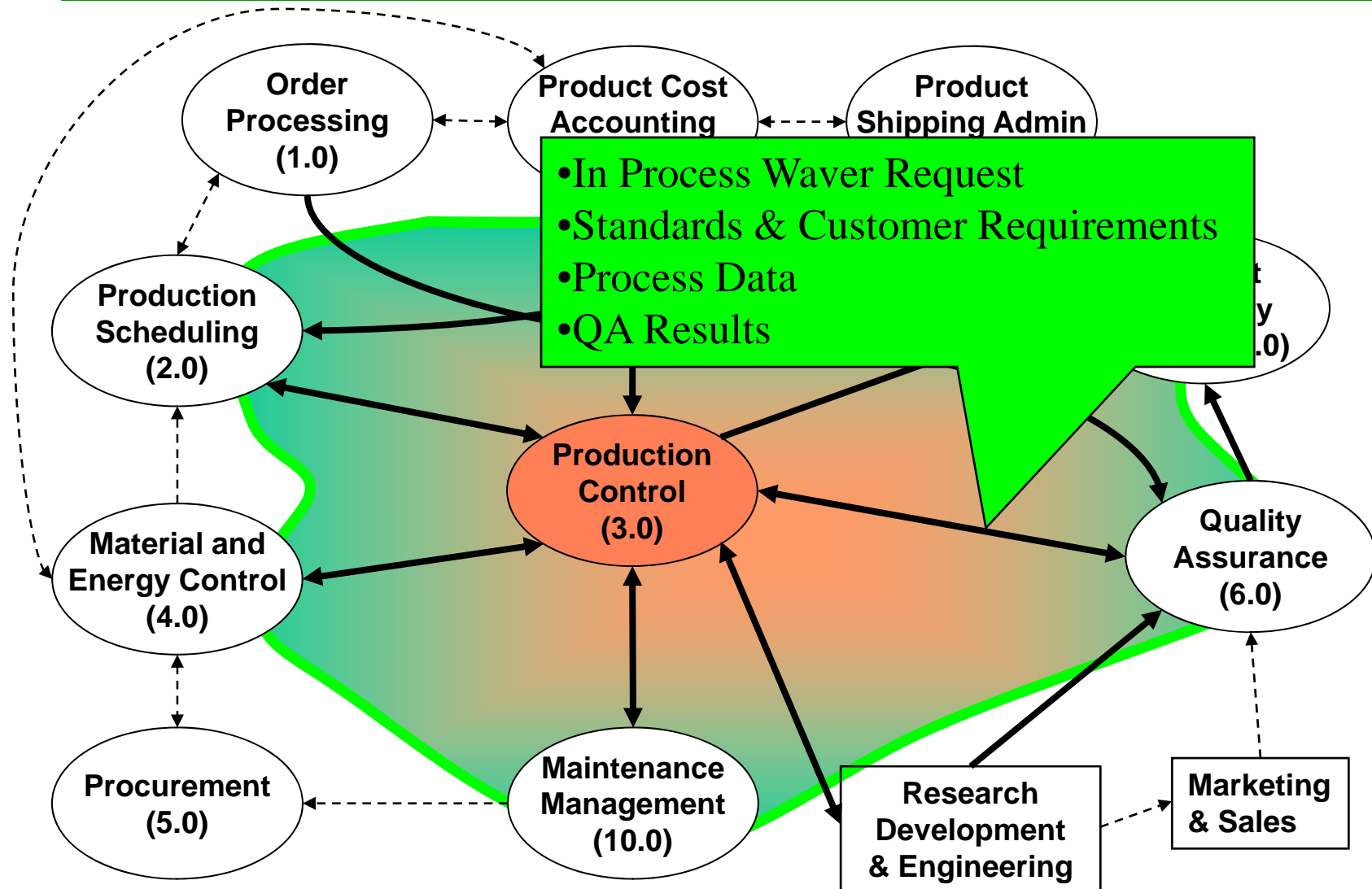
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# Quality Assurance - Inventory



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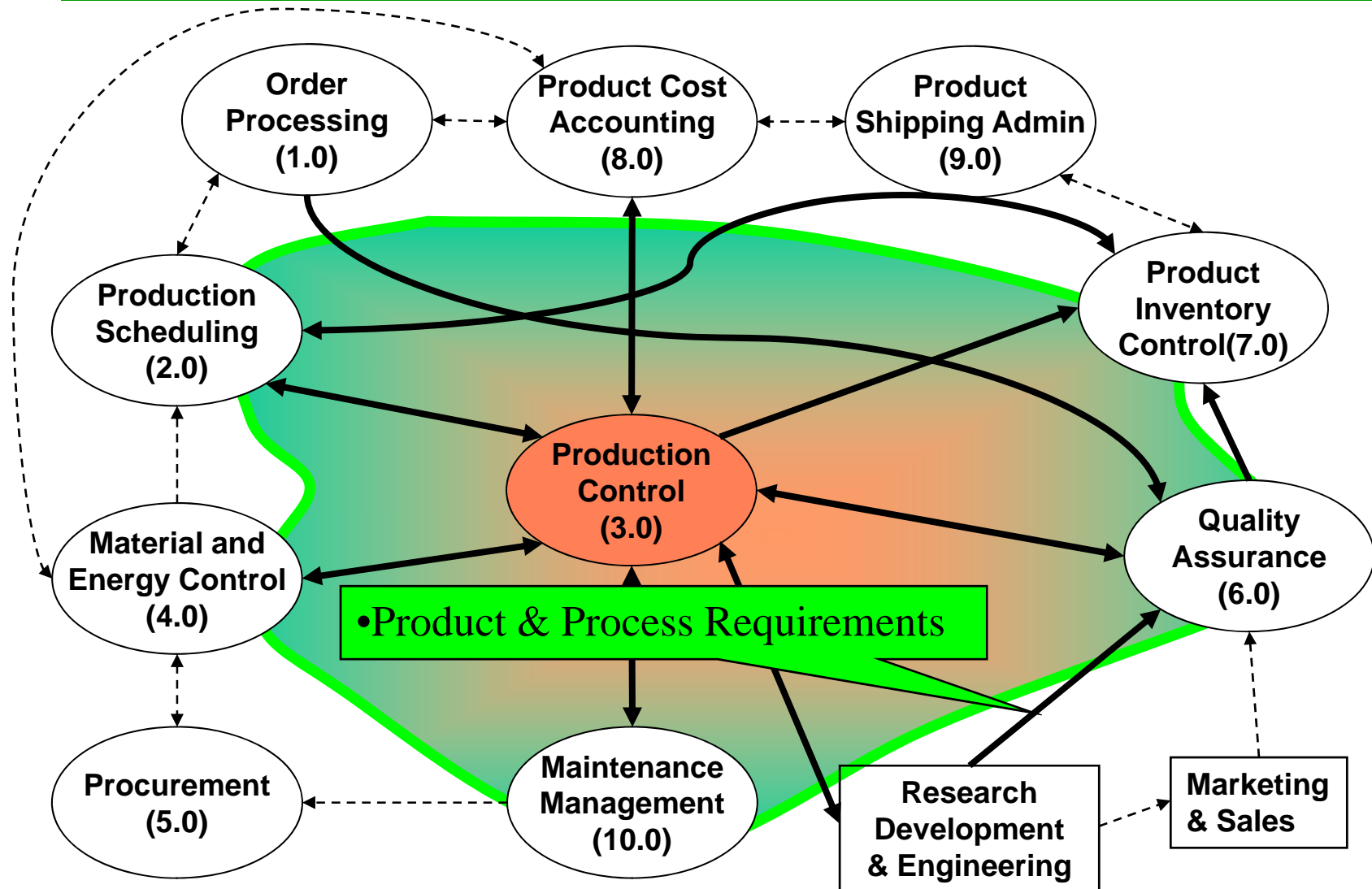
# Production - Quality Assurance



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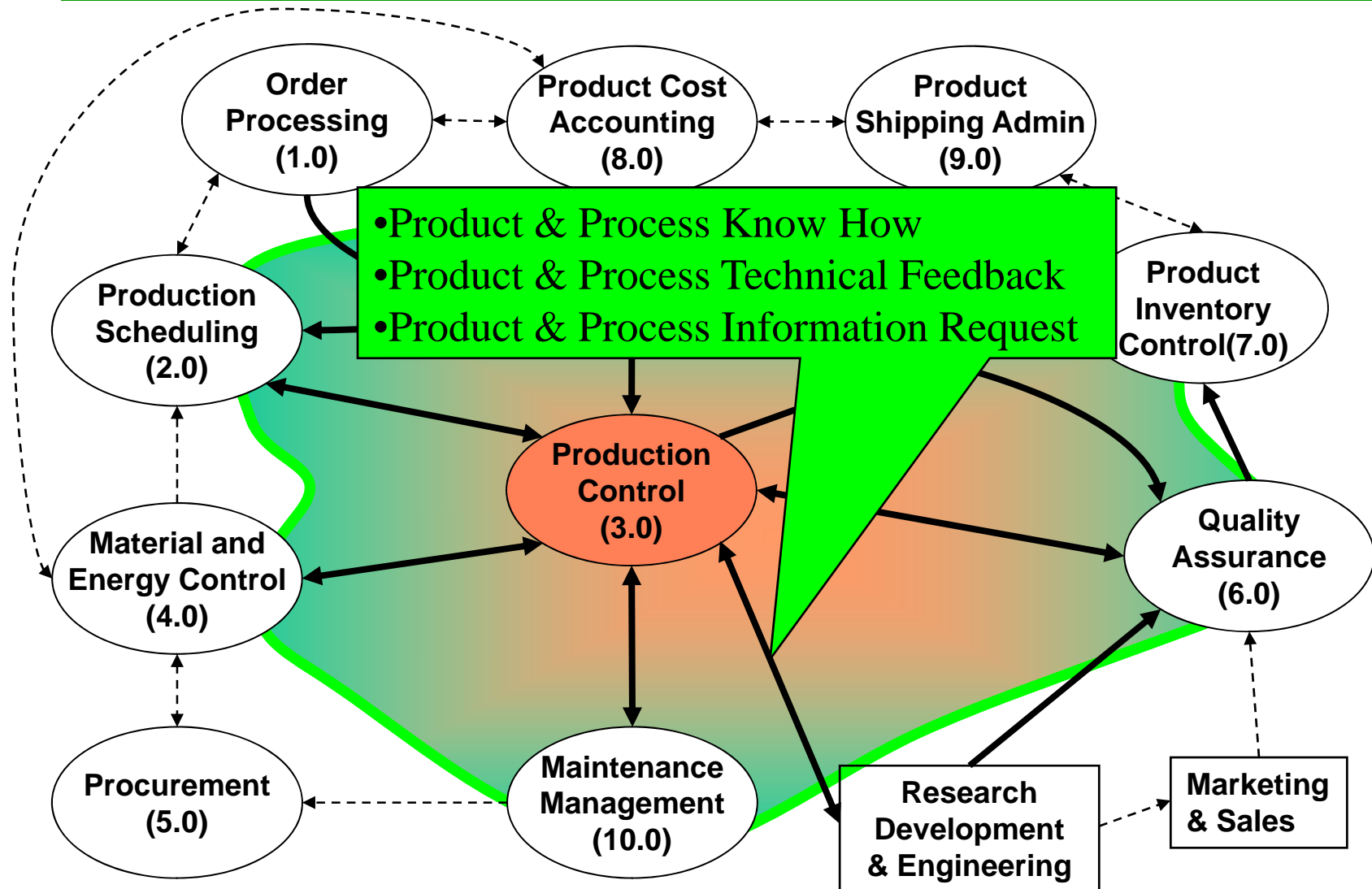
# Research - Quality Assurance



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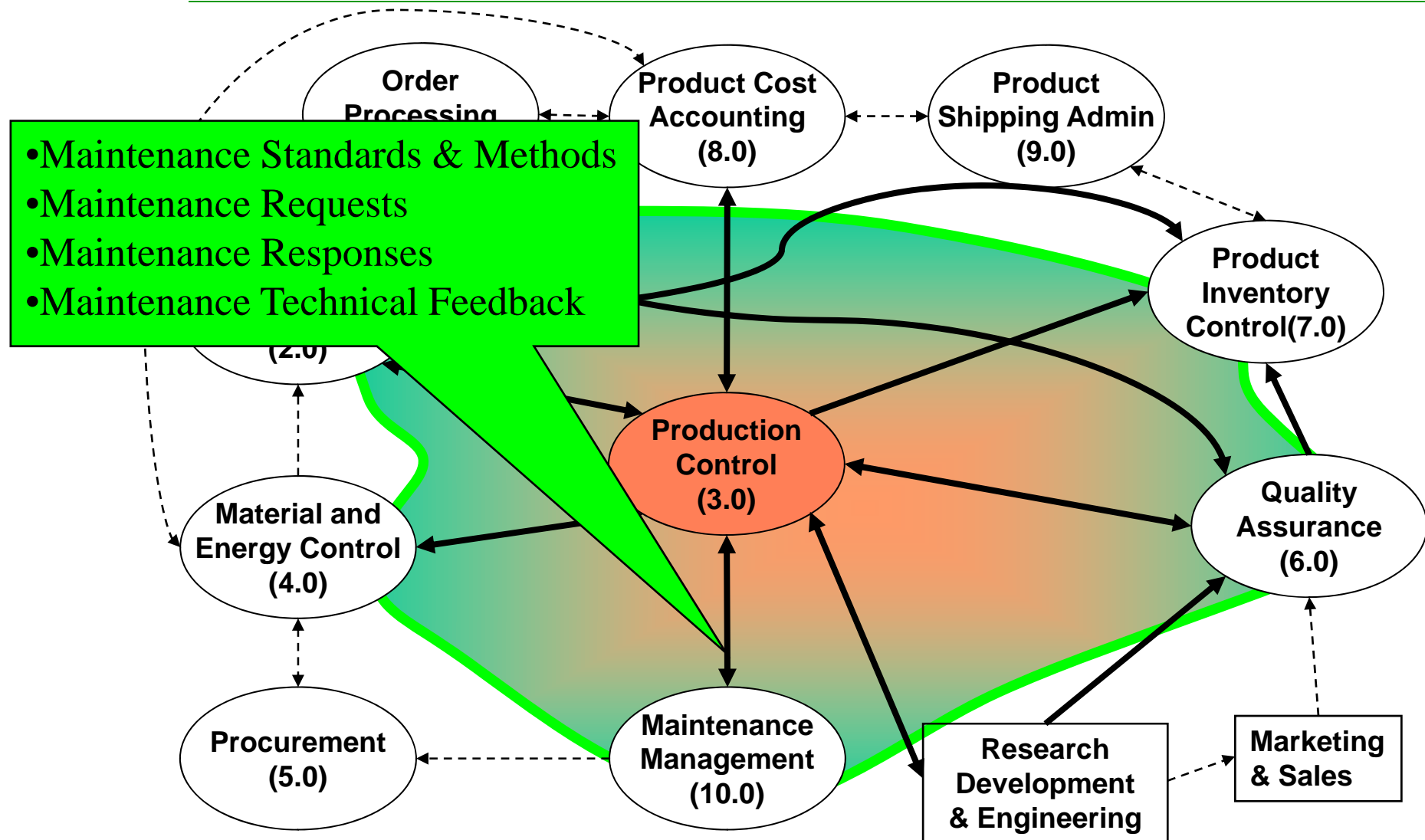
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# Research - Production Control



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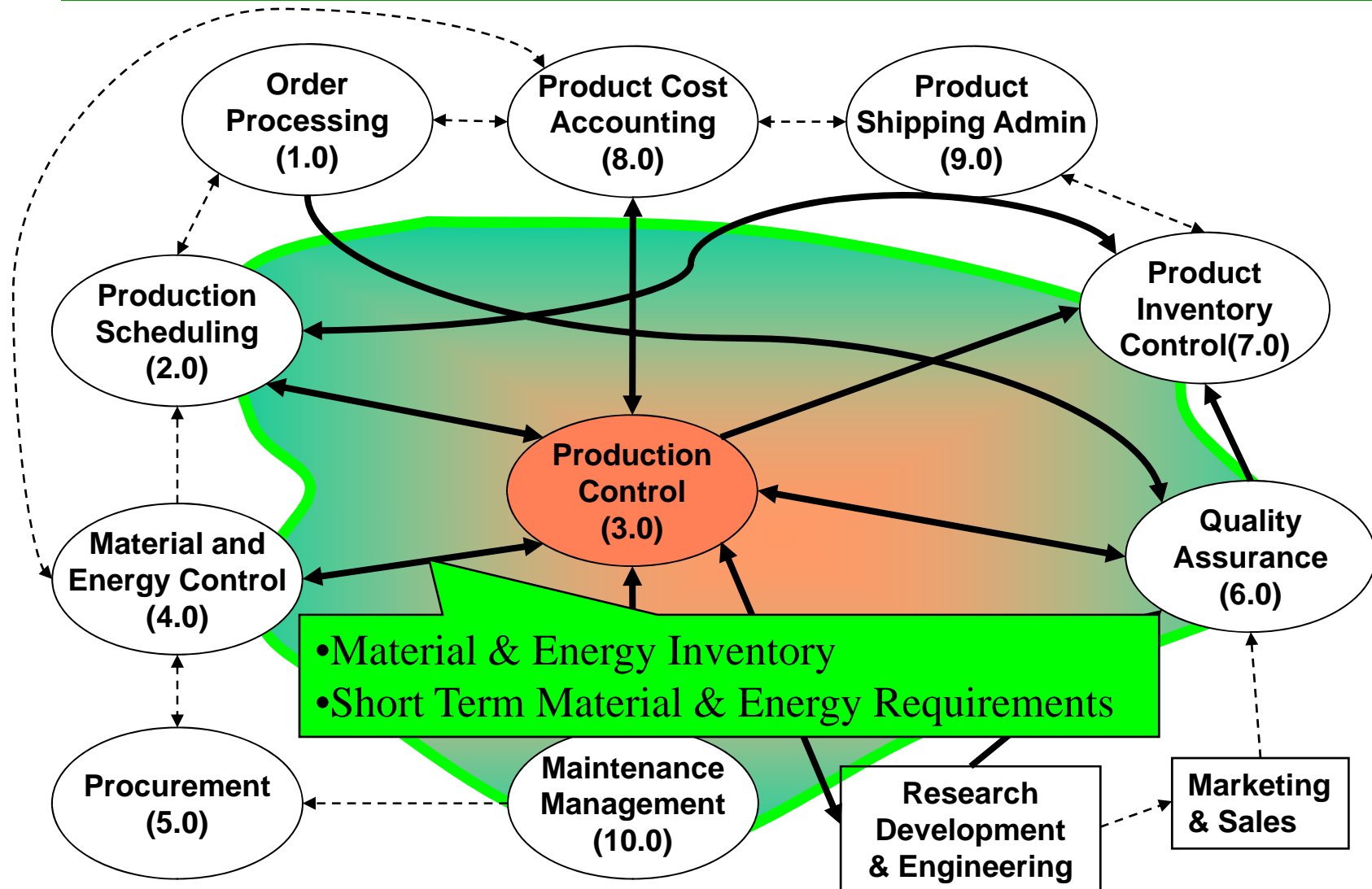
# Production Control - Maintenance



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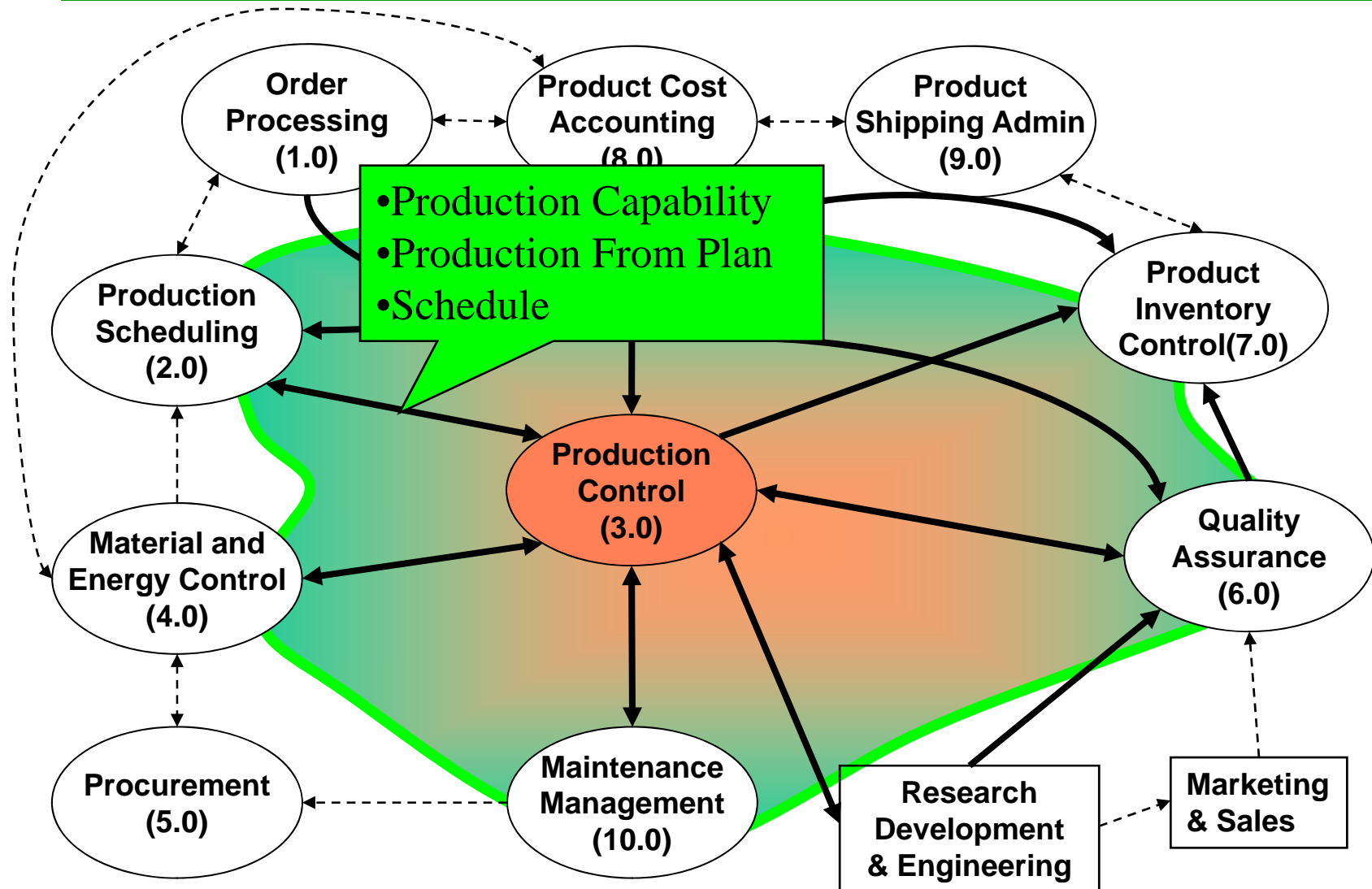
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# Material & Energy - Production



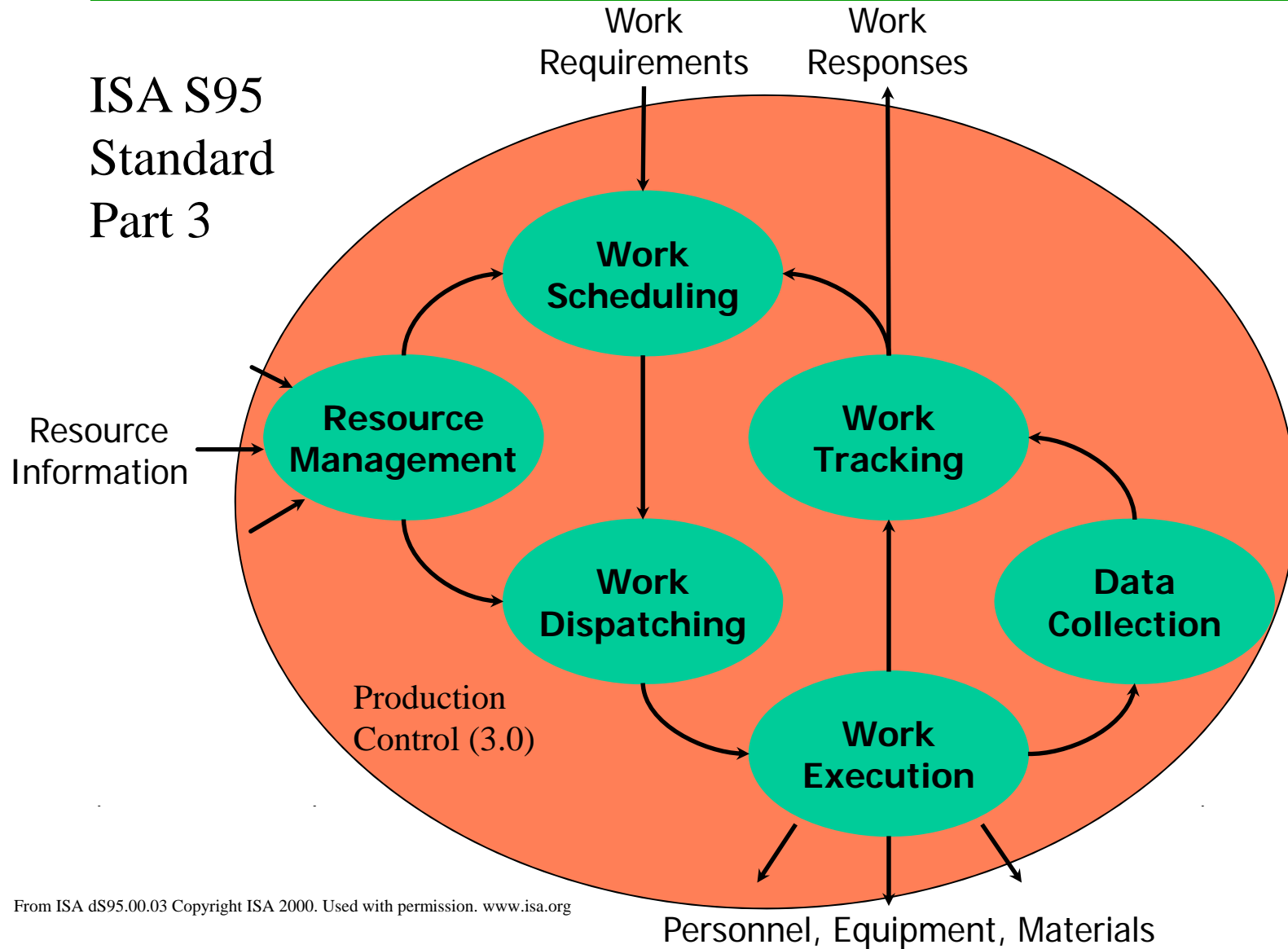
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# Scheduling – Production Control



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# Part 3 General Model of Operations

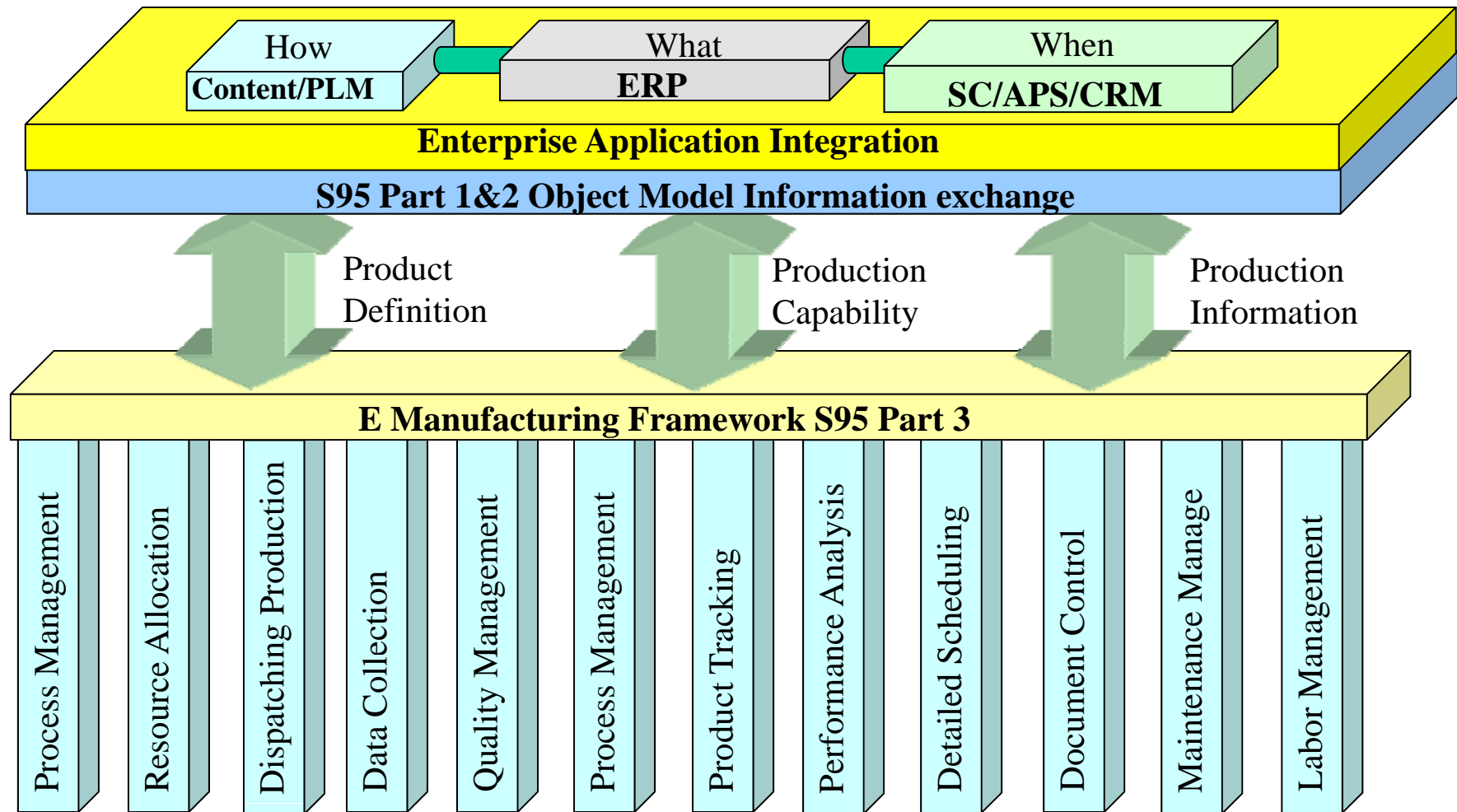


## *S95 Object Models*

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- Production capability
- Process segment capability
- Personnel
- Equipment
- Material
- Process segments
- Production definition information
- Production schedule
- Production performance

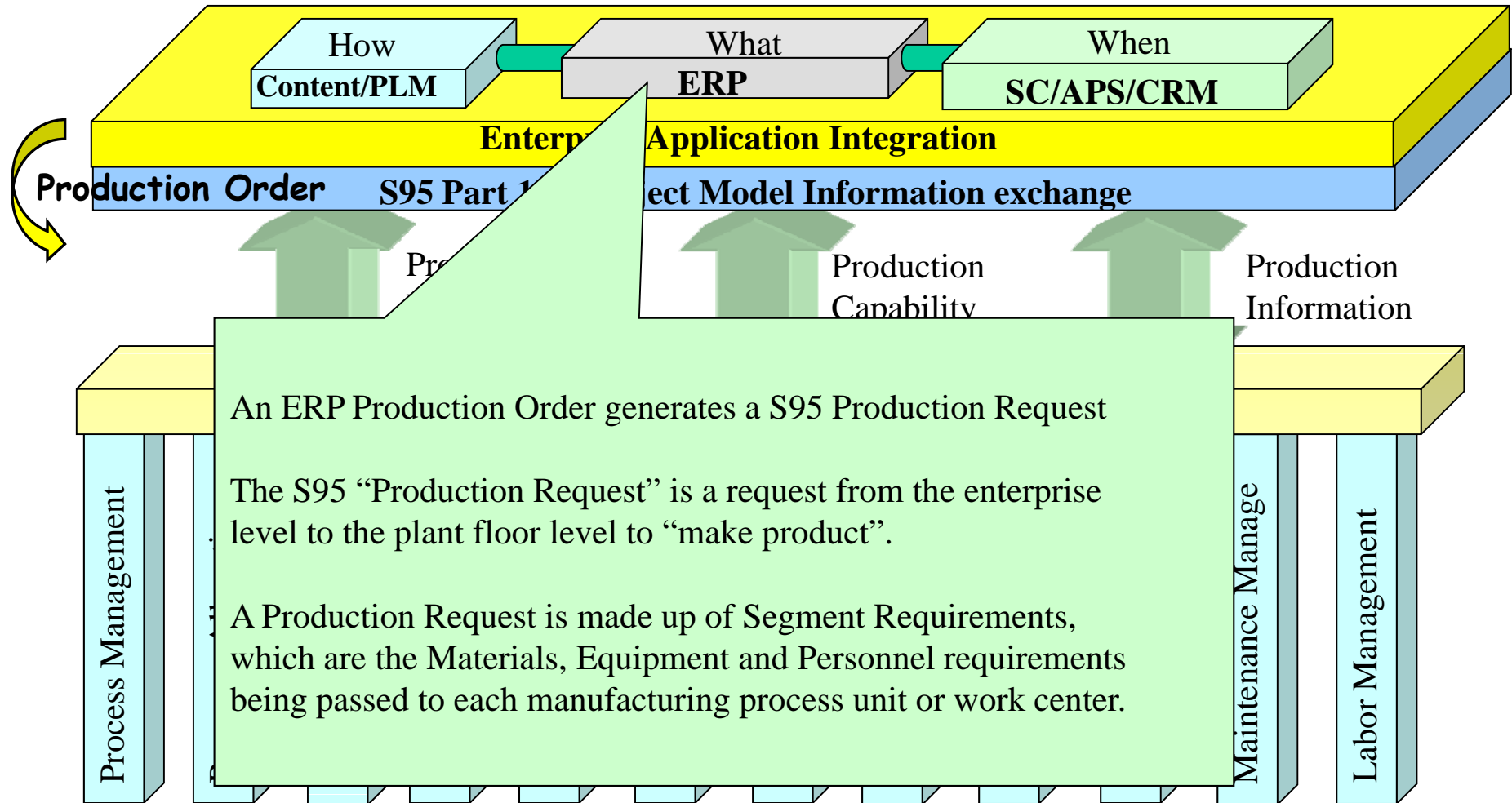
# S95 e-Business Architecture



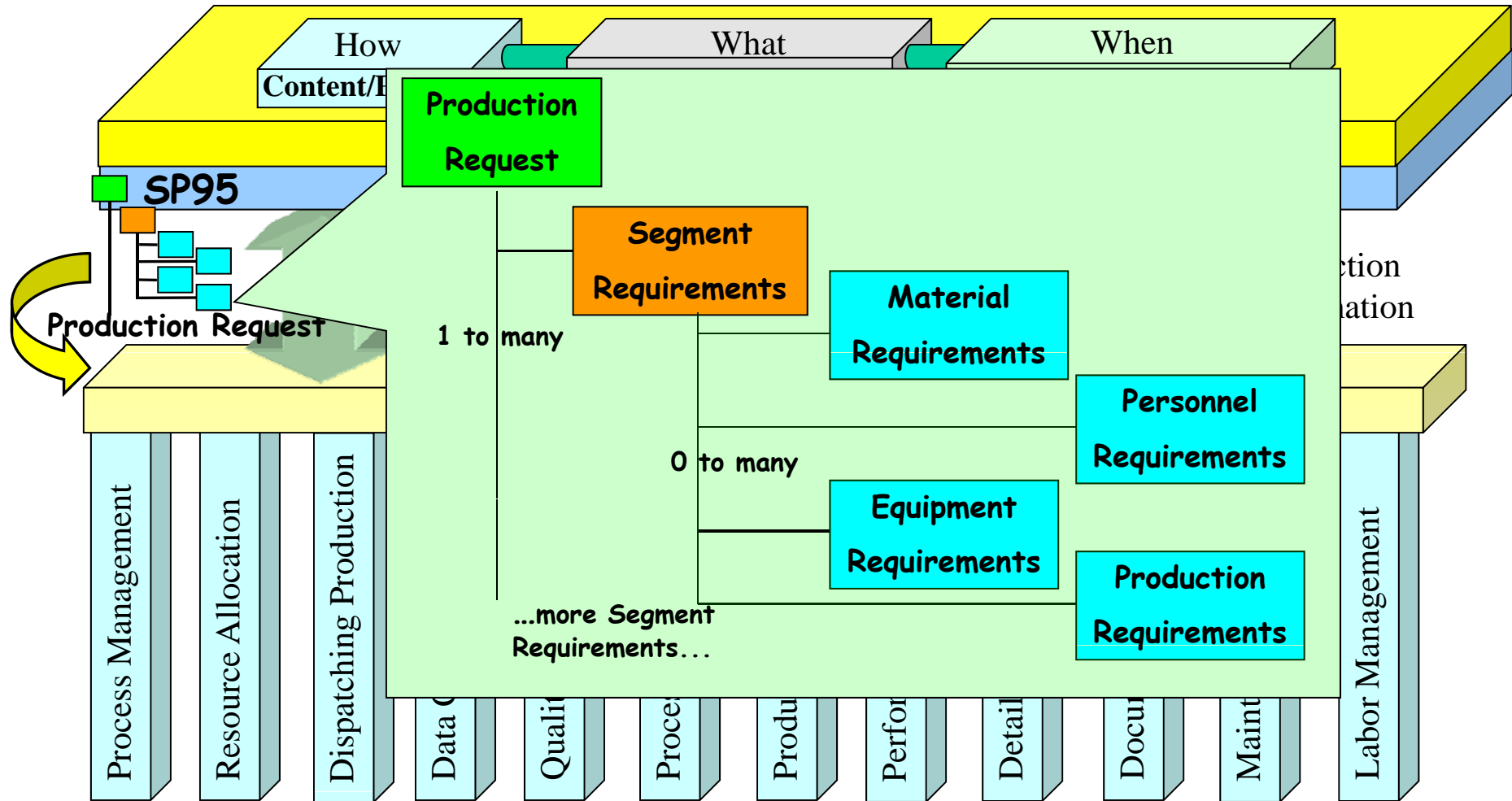
Plug in application objects used standalone or integrated



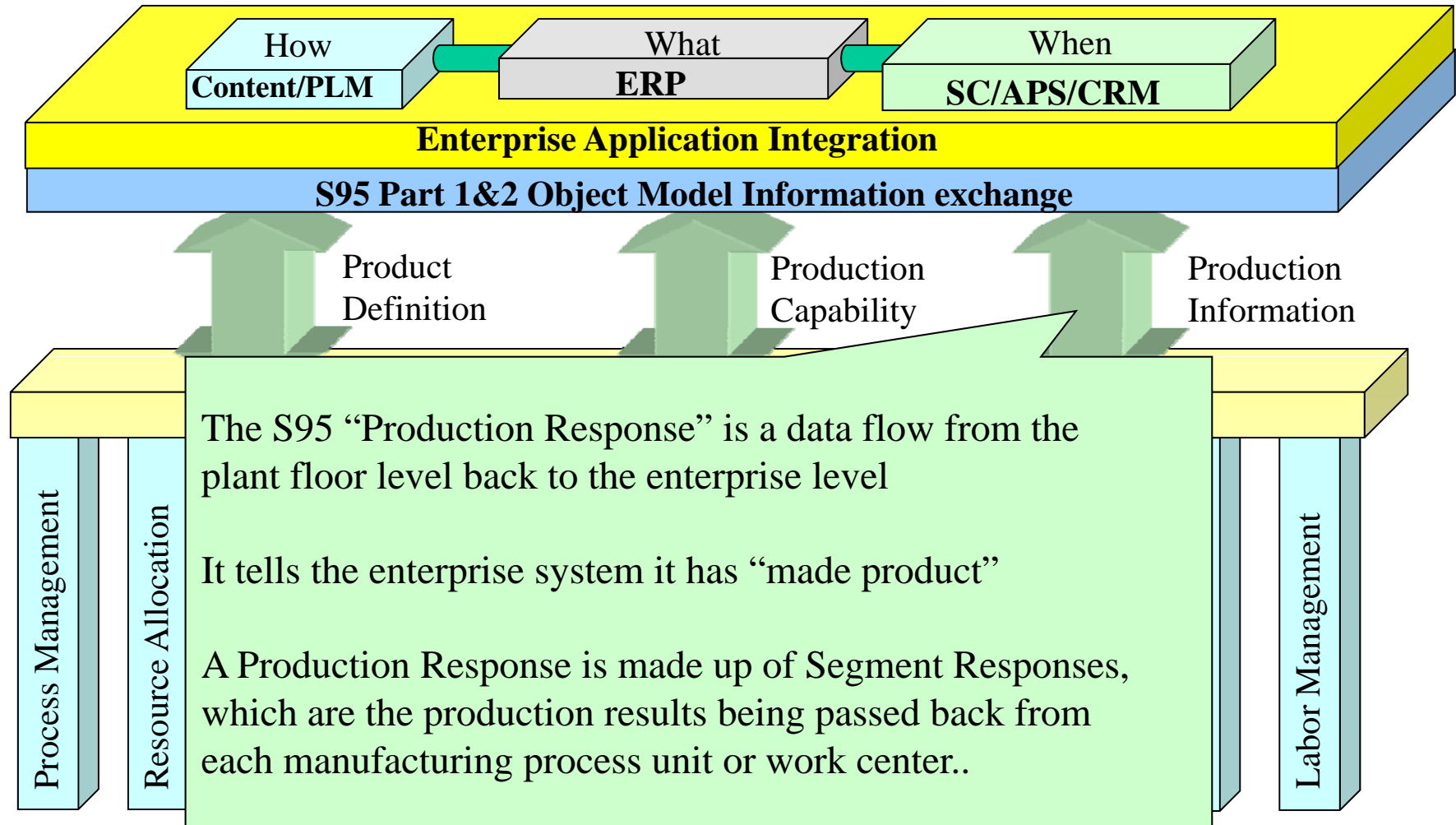
# S95 Production Order



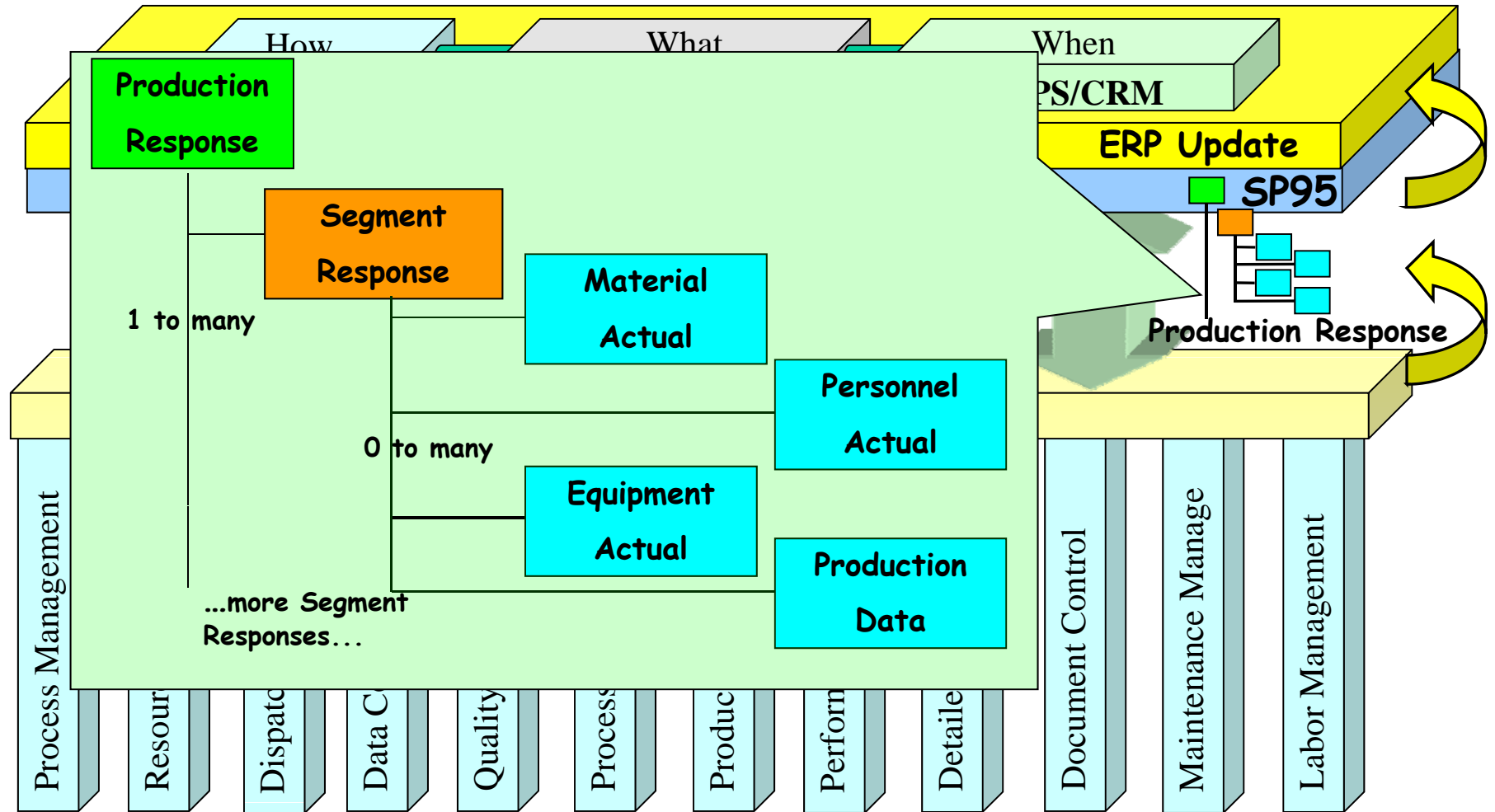
# S95 Production Request



# *S95 Production Response*



# *S95 Production Response/update*



## *Conclusion*

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- A successful e-business environment calls for flexible and responsive analysis and decision support mechanisms throughout the supply chain.
- To be competitive a production centric information environment that responds to supply chain demand and provides visibility into production capability is required.
- The S95 standard can enable this success !!

## *For Additional Information*

- How to join SP95
- How to obtain standards
- S88 and S95 training
- Contact  
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