

# S1000D Maturity Model



Jeff Deskins – Chief Technologist

# Agenda

- Why a Maturity Model?
- What is a Maturity Model?
- S1000D Maturity Model Overview
- Getting into the Details - Levels of Adoption
- Summary

# Why a Maturity Model?

Often businesses show symptoms of a sub-optimized systems environment

- Examples of these symptoms include:
  - misaligned processes
  - manual data entry
  - non-value-added steps
  - poor customer service
  - lack of visibility of the value-chain
  - lack of key performance measurements
  - lack of standardization of processes
- Several factors contribute to this:
  - hurried implementation
  - lack of vision
  - retirement of experienced staff
  - poor system support
  - lack of knowledge of system features
  - poorly defined processes
  - or poor quality of data

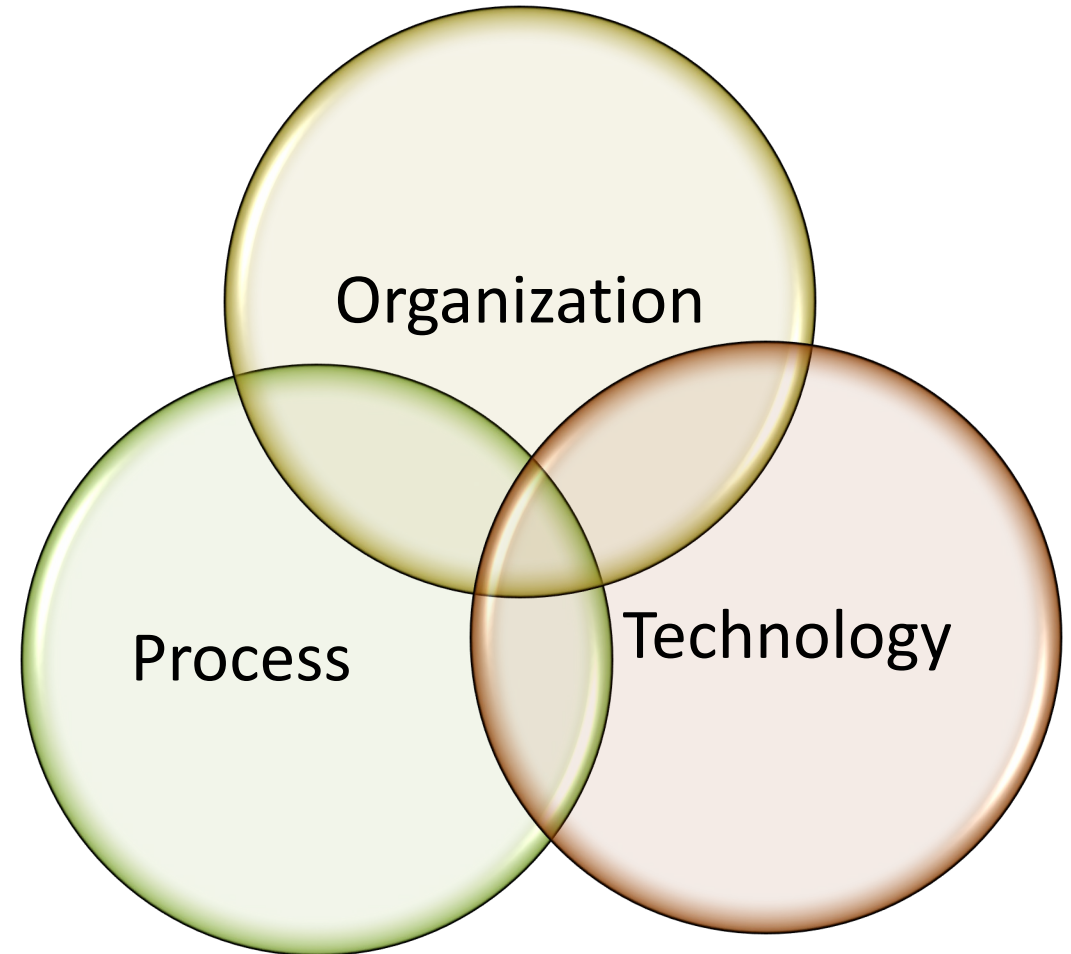
# Maturity Model Defined

## What is a Maturity Model?

- A maturity model is a tool that helps people assess the current effectiveness of a person or group and supports figuring out what capabilities they need to acquire next in order to improve their performance.

## What does a Maturity Model provide?

- A maturity model is a tool for evaluating how the processes, people, and systems that support a product are performing. It provides tiered levels of achievement for objectively assessing the maturity in these areas so you can identify areas for improvement.



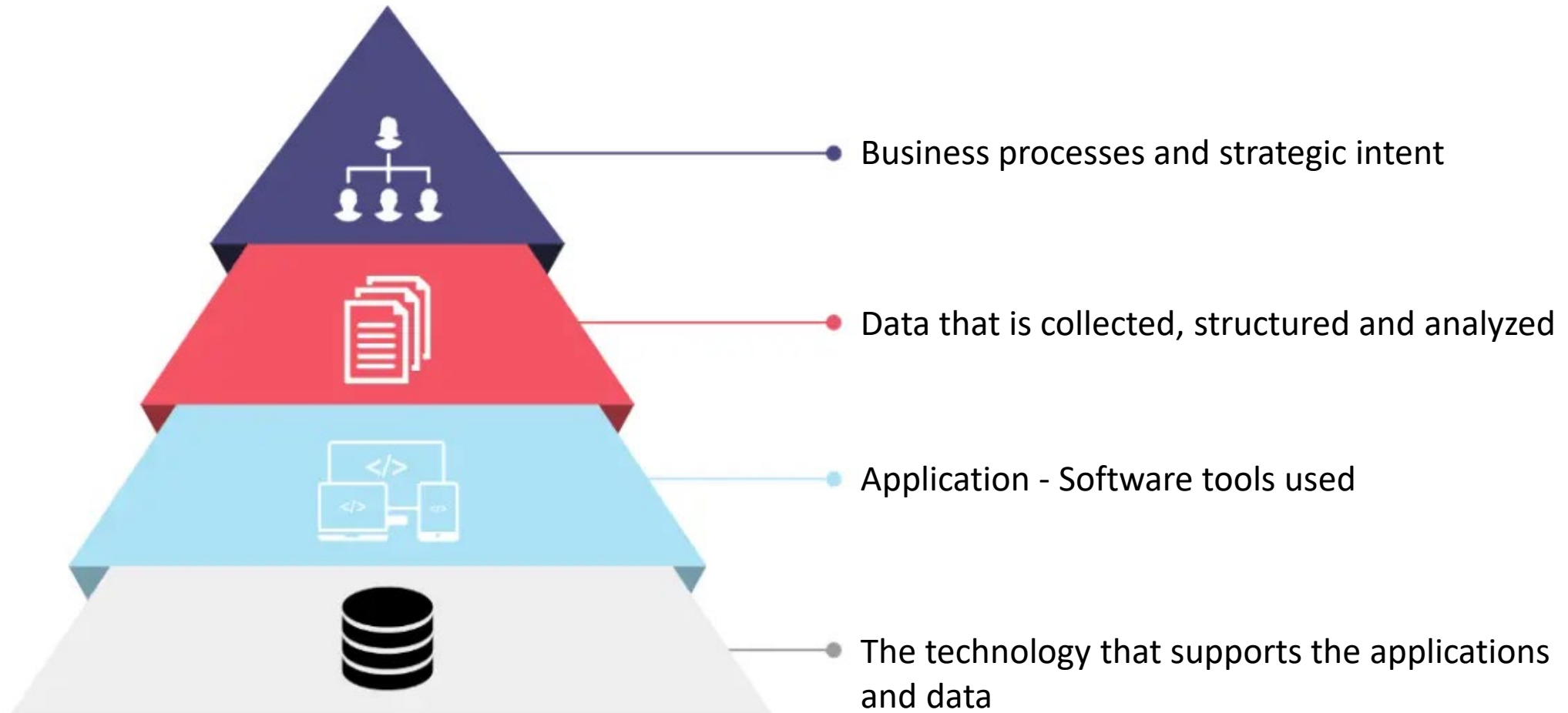
## Typical Purposes for Maturity Models

- With maturity models representing theories of stage-based evolution, their **basic** purpose consists in describing stages and maturation paths.
- Accordingly, characteristics for each stage and the logical relationship between successive stages are at the core of most maturity models.

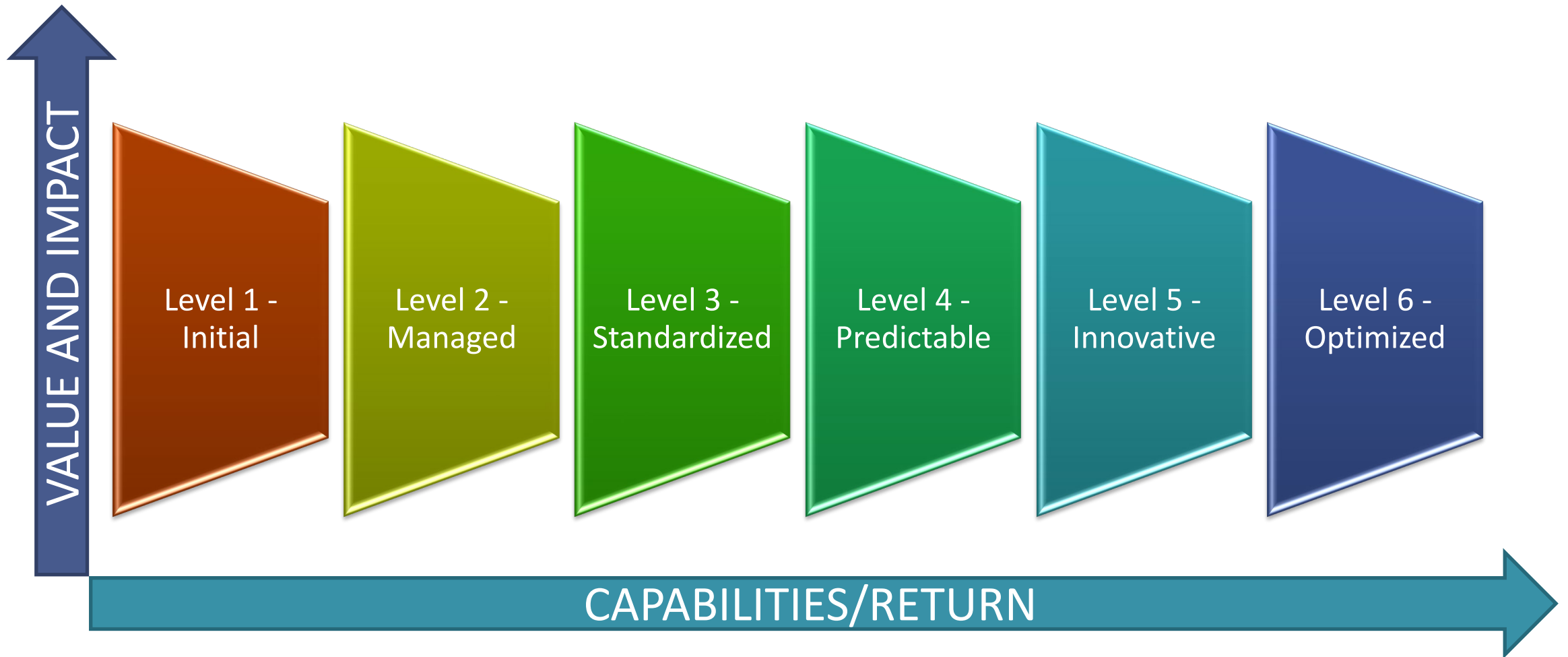


# Maturity Model Framework

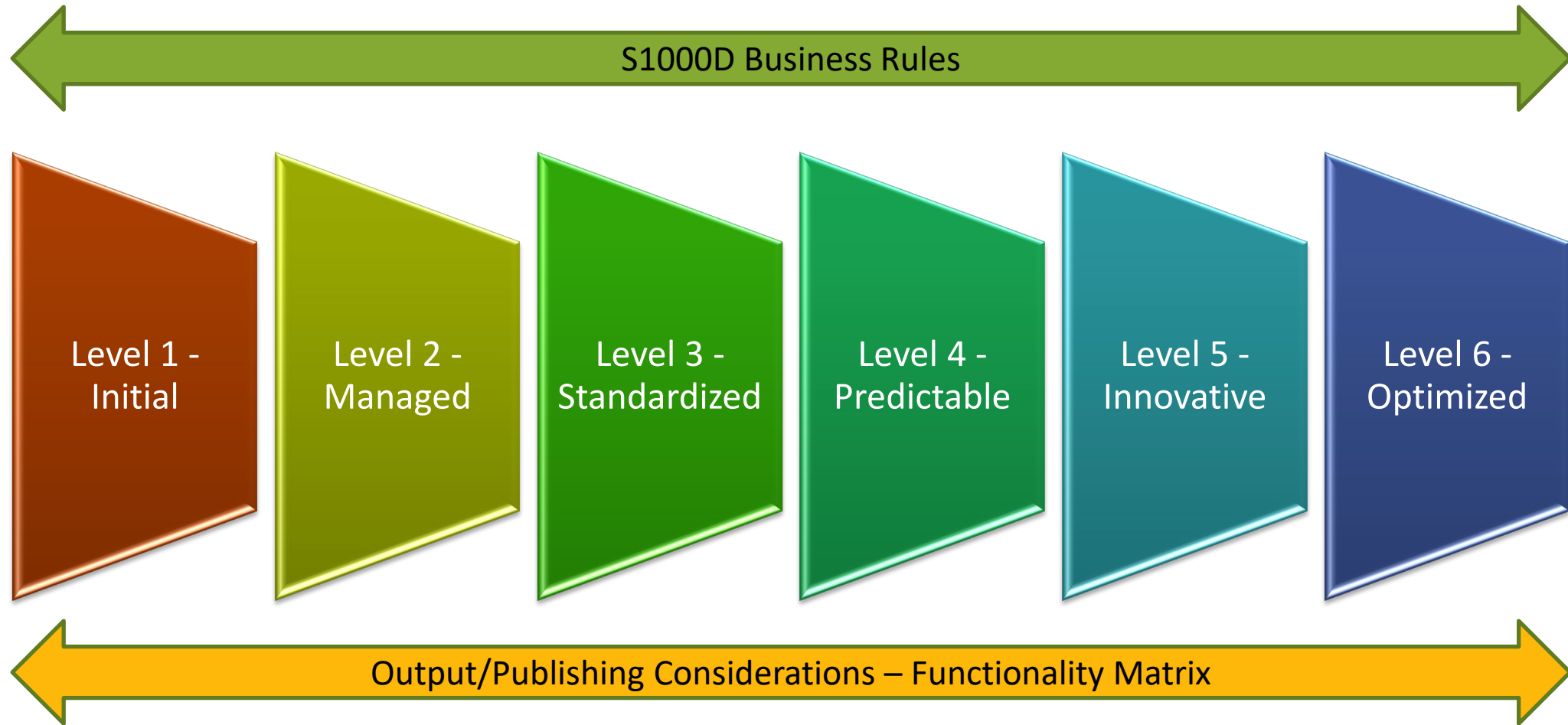
Utilizing the enterprise architecture framework and playbook



# Maturity Model Levels



# S1000D Concepts and Maturity Model Levels





# Maturity Model Level 1 - Initial

## Definition

- Use of file system
- Manual Business Processes
- Tribal knowledge

## Investment

- Migration to XML
- Part time S1000D Expertise

## Return

- Ability to generate S1000D deliverables
- Savings from elimination of redundant content



# Maturity Model Level 2 - Managed

## Definition

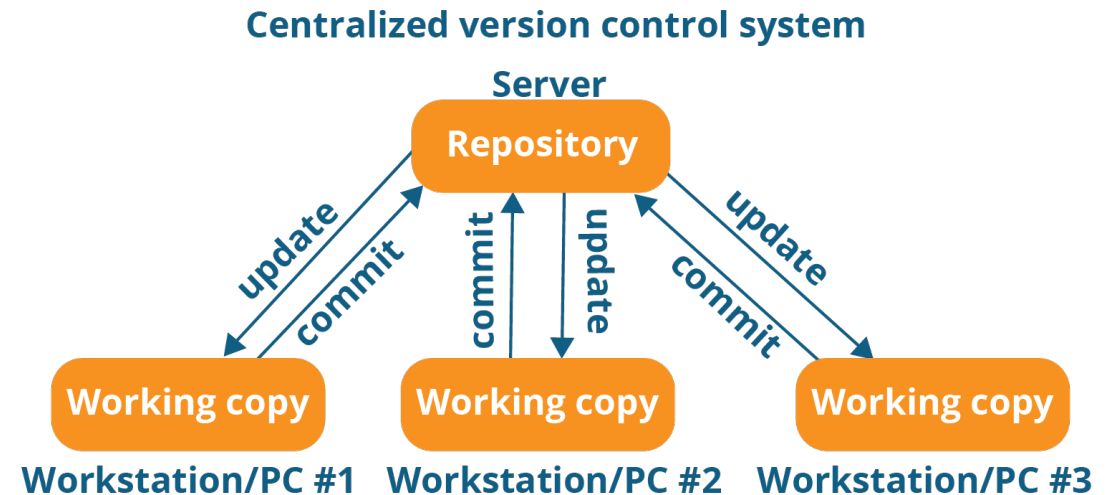
- Use of version control system
- Partial Manual Business Processes
- Some tribal knowledge still necessary

## Investment

- Purchase of version control software
- Part time S1000D Expertise
- Version control software expertise

## Return

- Create S1000D information architecture for reuse, metadata, and user access
- Content control with role-based permissions



## Maturity Model Level 3 - Standardized

### Definition

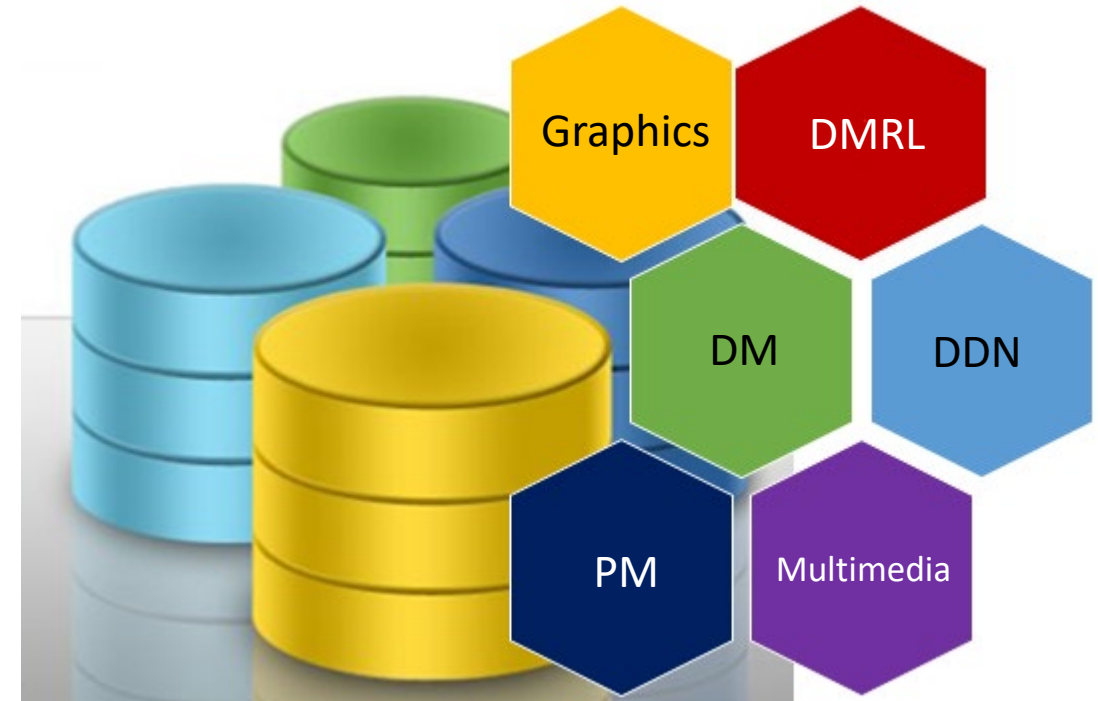
- Use of a common source database [CSDB]
- S1000D Only System

### Investment

- Purchase of S1000D CSDB software
- Full-time S1000D Expertise
- CSDB software expertise

### Return

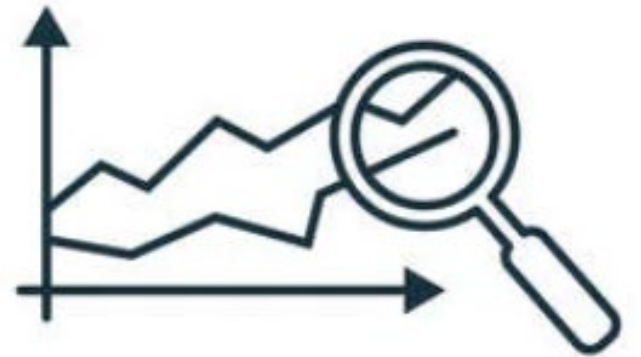
- CSDB Software will take more of the S1000D responsibility [built-in]
- More automation, less manual intervention



## Maturity Model Level 4 - Predictable

### Definition

- Utilize Logistics [S3000L, S4000P, GEIA-0007]
- Incorporate LPD Data
- Materials Data [S2000M]
- Training and S6000T



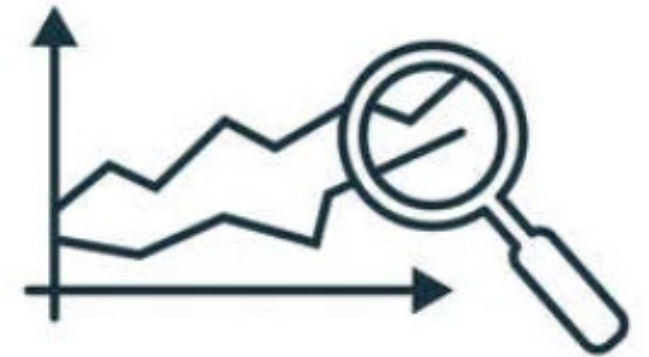
## Maturity Model Level 4 - Predictable

### Investment

- Purchase of logistics and training software
- Full-time logistics, parts, training expertise
- Part-time enterprise and information architect expertise

### Return

- Efficiency through automatized processes
- Reduced data domain silos.
- Savings by reusing data across teams
- Established single source of truth
- Benefits of automating workflow instead of manually managing processes



# Maturity Model Level 5 - Innovative

## Definition

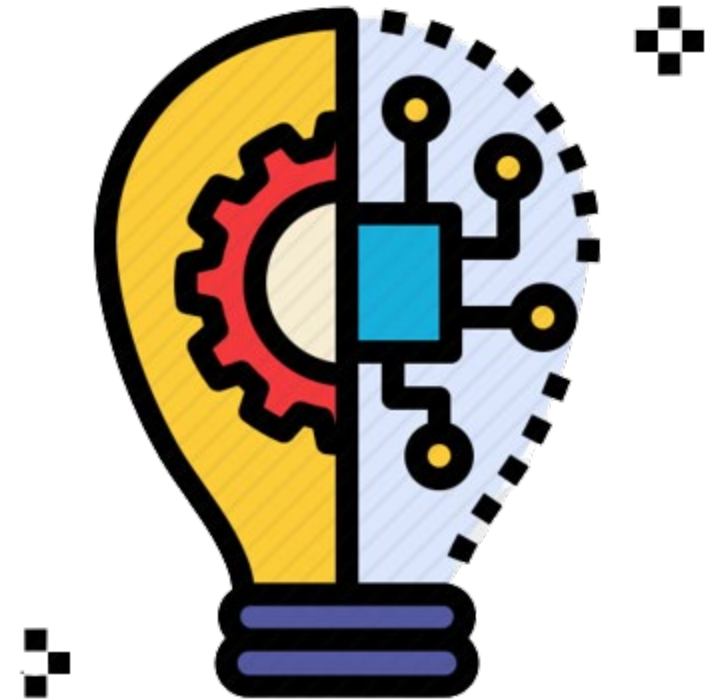
- Utilize PLM
- Reuse of 3D models
- Utilize Model Based Engineering methods

## Investment

- Either purchase or integration of existing PLM software
- Part-time MBE expertise
- Full-time enterprise and information architect expertise
- PLM software expertise

## Return

- Establishing digital thread in the enterprise
- More automation
- Integrated content and data from engineering to customer



# Maturity Model Level 6 - Optimized

## Definition

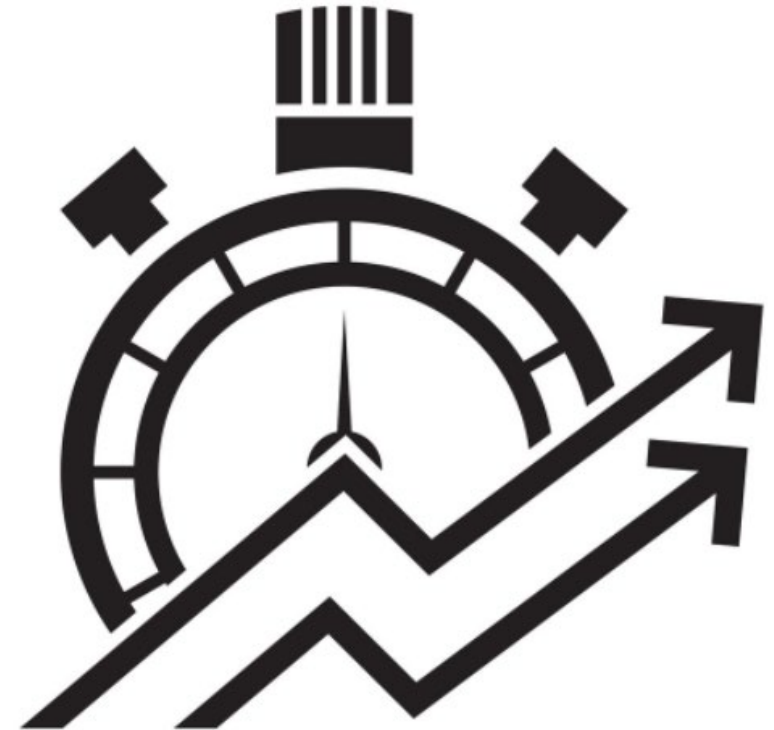
- Complete utilization of S-Series specifications
- Full execution of IPS SX000i data model
- Fully integrated enterprise architecture framework

## Investment

- Purchase remaining S-Series software
- Full-time MBE expertise
- All data domain experts on enterprise architect team

## Return

- Fully integrated digital thread – OEM, Subcontractors, Customers
- No more data domain silos
- Adaptable network of integrated applications
- Closed Loop - Integrated content and data from engineering to customer and back



## Summary

- S1000D is a flexible, scalable architecture = process and content improvement at each maturity level
- Minimal investment = XML data modules on a file system
- Maximum return = integrated, dynamic content and data provided by scalable architecture
- Benefits accrue at each level





DTB Team



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