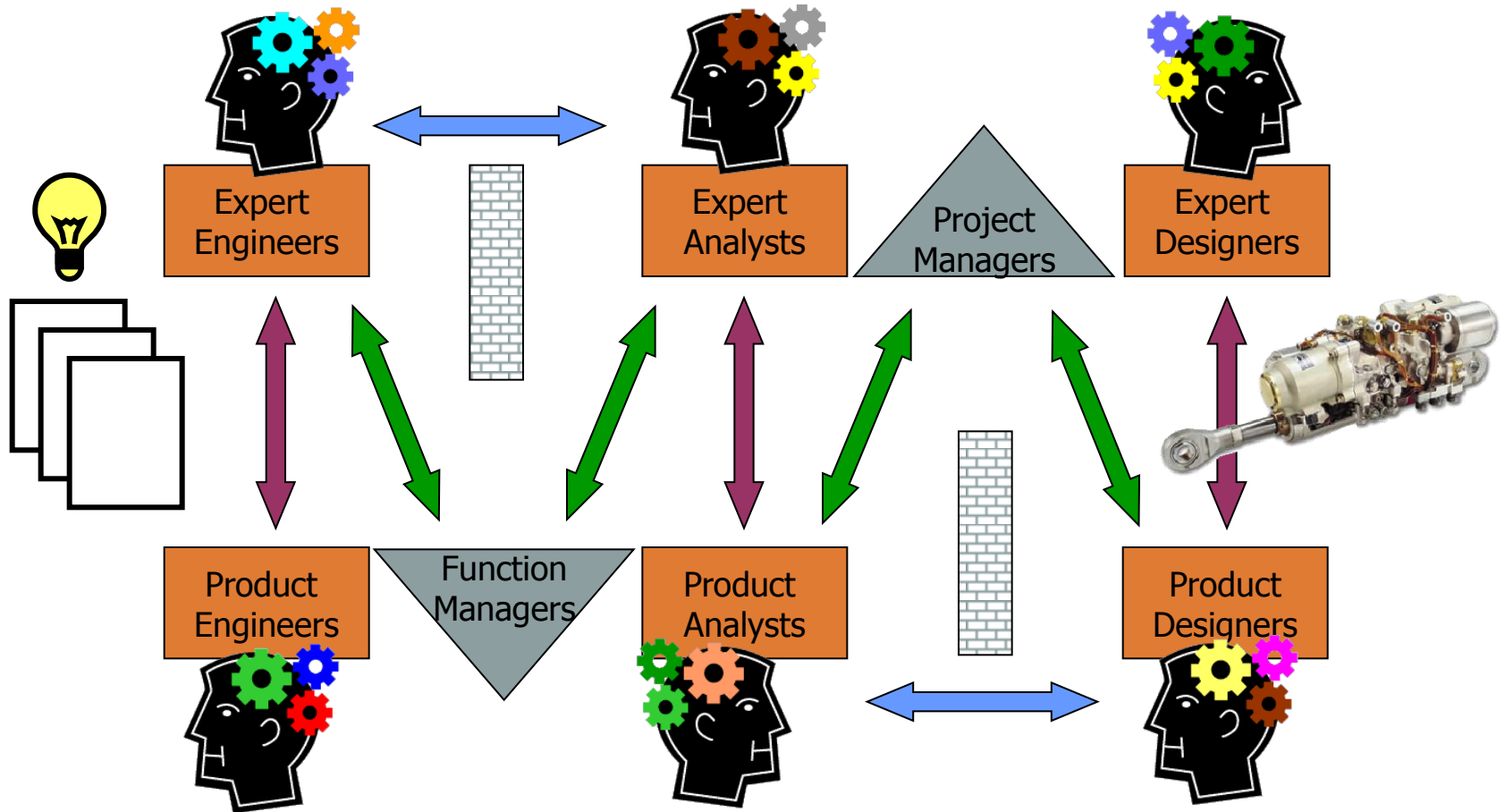# KDA: What it is?
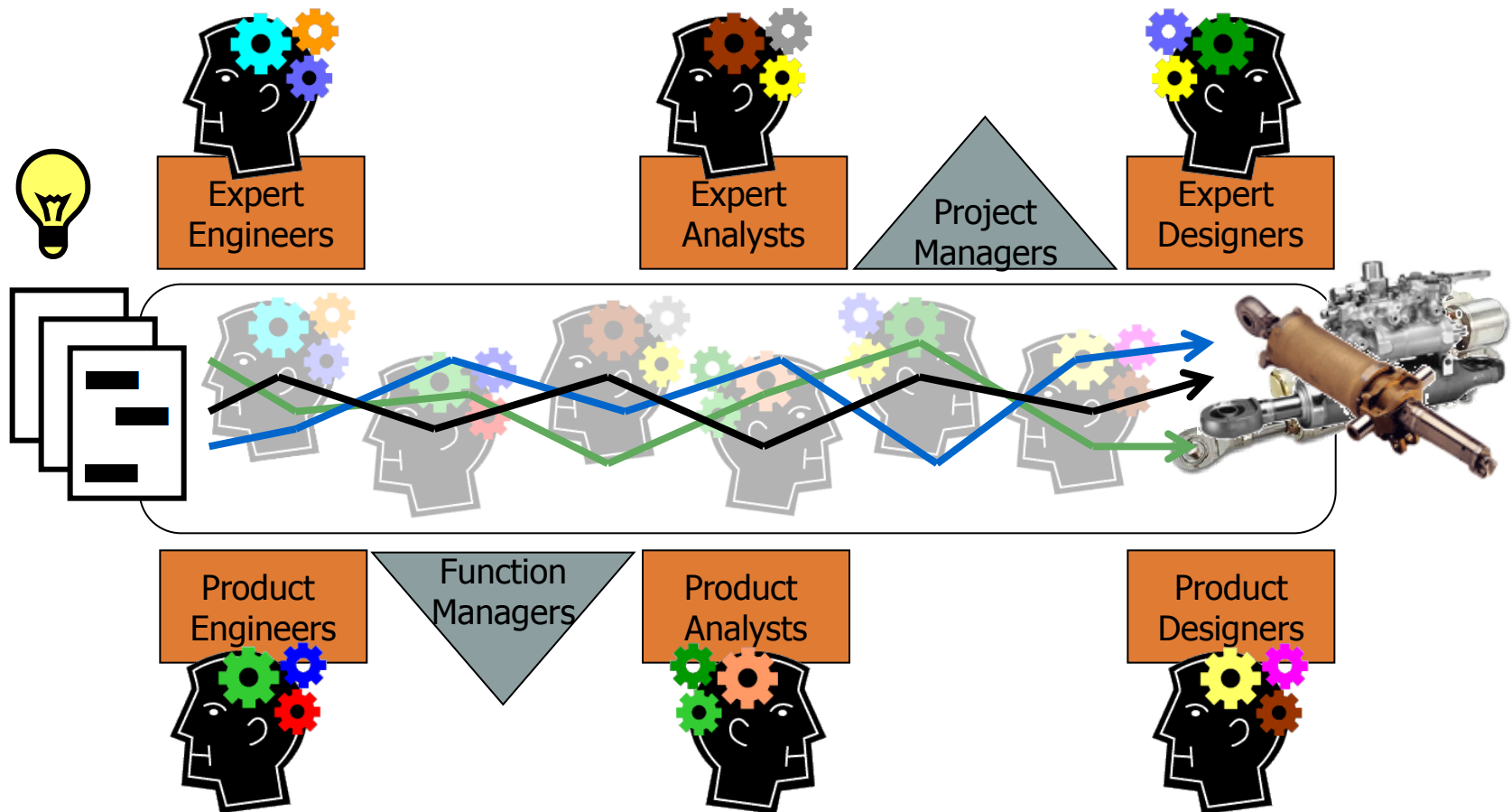
Knowledge Driven Automation (KDA) is a knowledge centric approach to accelerate the PLM process via knowledge capture & reuse and applying lean tools & techniques .
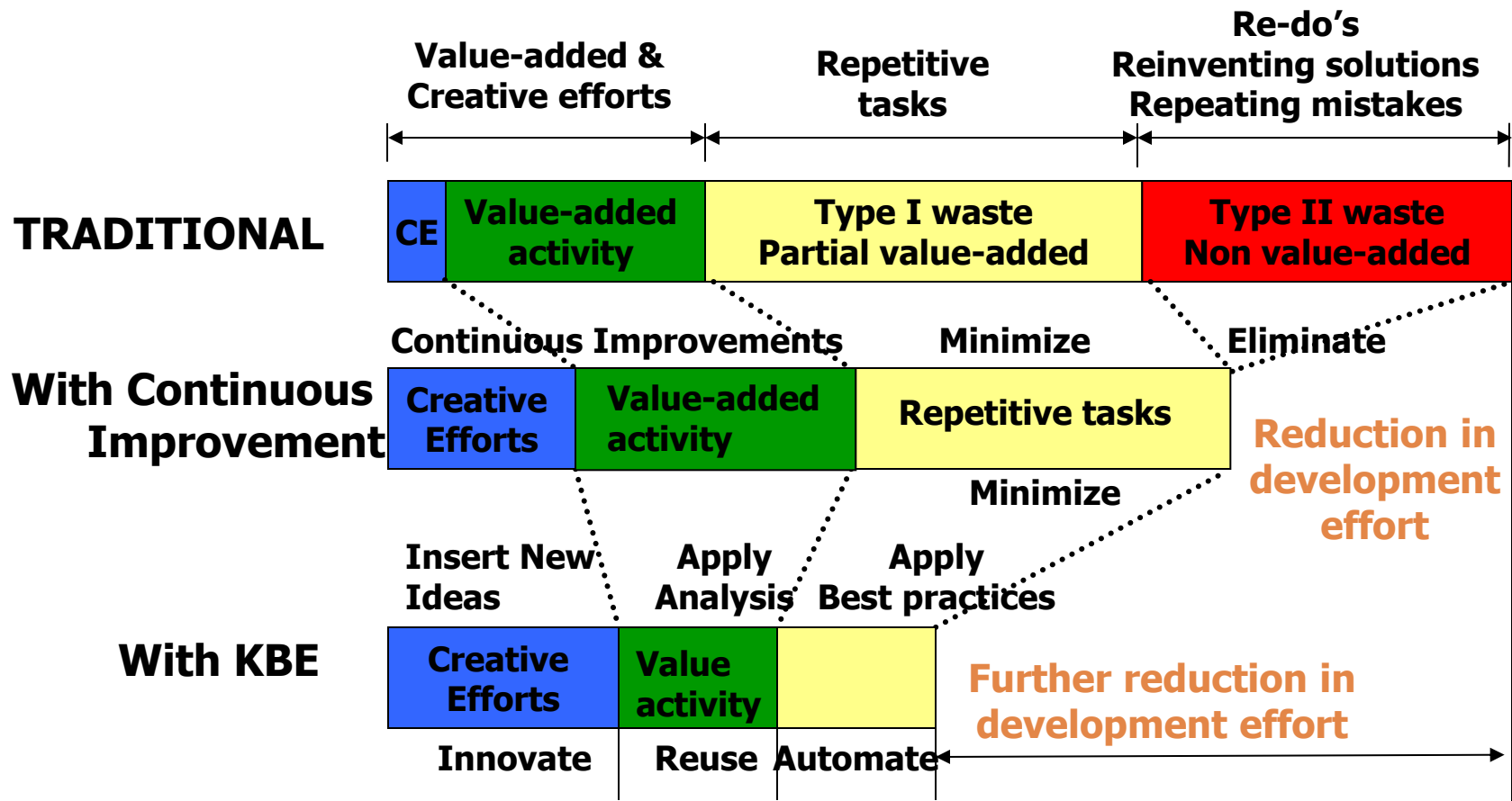
What's commonly Bad with a typical product design scenario?

What Goods look like in a Knowledge-centric approach?

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Why employ Knowledge-based Engineering in a PLM process?

	Value-added & Creative efforts	Repetitive tasks	Re-do's Reinventing solutions Repeating mistakes
TRADITIONAL	CE | Value-added activity	Type I waste Partial value-added	Type II waste Non value-added

Continuous Improvements   Minimize   Eliminate

With Continuous Improvement	Creative Efforts | Value-added activity	Repetitive tasks	**Reduction in development effort**

Minimize

Insert New Ideas   Apply Analysis   Apply Best practices

With KBE	Creative Efforts | Value activity		**Further reduction in development effort**

Innovate   Reuse   Automate

KBE: Knowledge-Based Engineering

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Key Benefits

- Knowledge resides in one system and reused widely across the enterprise
- Order of magnitude savings (1:10 ~ 1:100)
- Promotes collaboration & knowledge sharing
- Product independent architecture
- Experts now become knowledge-keepers
- Promotes innovations and creativity
- Good for family of parts & portfolio mgt
- Knowledge inside, Lean inside, standards inside, analysis inside, best practices inside

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