Domain-specific Engineering

Wrap Up

Summary

- **DsE is a framework for promoting engineering discipline in software and system development practices.**

- **Each organization must tailor a DsE process to the needs and objectives of its business.**

- **DsE motivates an orientation to investing in software as a capital asset.**

- **The value of a domain depends on the knowledge and expertise of the people who create it.**

For More Information on Domain-specific Engineering

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PHS Website Content

- Company information, products/services, and events
- Domain-specific Engineering
- Reuse-driven Process Improvement
- Adaptable Components and metaprogramming

PHS Products and Services

- **DsE course**
- **Facilitation for DsE pilot projects**
  - **PI$_r$ assessments and process actions**
  - **DsE process tailoring**
  - **Domain Management**
  - **Domain Definition**
  - **Product Family and Process Engineering methods**
- **Adaptable Components tutorial and tool**

Other Related Material

Reuse-driven Software Processes Guidebook
**(SPC-92019-CMC, Version 02.00.03),
Software Productivity Consortium, November 1993.**

Reuse Adoption Guidebook
**(SPC-92051-CMC, Version 02.00.05),
Software Productivity Consortium, November 1993.**

Software Engineering Institute website: www.sei.cmu.edu
(Capability Maturity Model, Product Line Practices)

European Software Institute website: www.esi.es
(Product-Line Based Reuse)

RSP Guidebook Content

- **Methodology overview**
- **Opportunistic process description**
  - **Overview**
  - **Domain engineering**
  - **Application engineering**
- **Leveraged process description**
  - **Overview**
  - **Domain engineering**
  - **Application engineering**
- **Glossary**
- **References**

RSP Guidebook
Activity Descriptions

- **Getting Started (overview, objectives, required information, required knowledge and experience)**

- **Product Description (purpose, content, form and structure, verification criteria)**

- **Process Description**
  - **Steps *(actions, inputs, results, heuristics)***
  - **Risks *(implication, mitigation)***

- **Interactions With Other Activities (contingency, source, response)**
  - **Feedback to information sources**
  - **Feedback from product consumers**

RA Guidebook Content

- **A reuse adoption process**
- **Assessment methods and worksheets**
  - **Domain**
  - **Reuse capability**
- **Adoption strategy development**
- **Adoption risks**
- **Legal and contractual risks of reuse**