



Agile Software Development Extended to the Embedded Domain

New software development technology capable to produce a significant improvement of the competitive position of the embedded software development industry in Europe

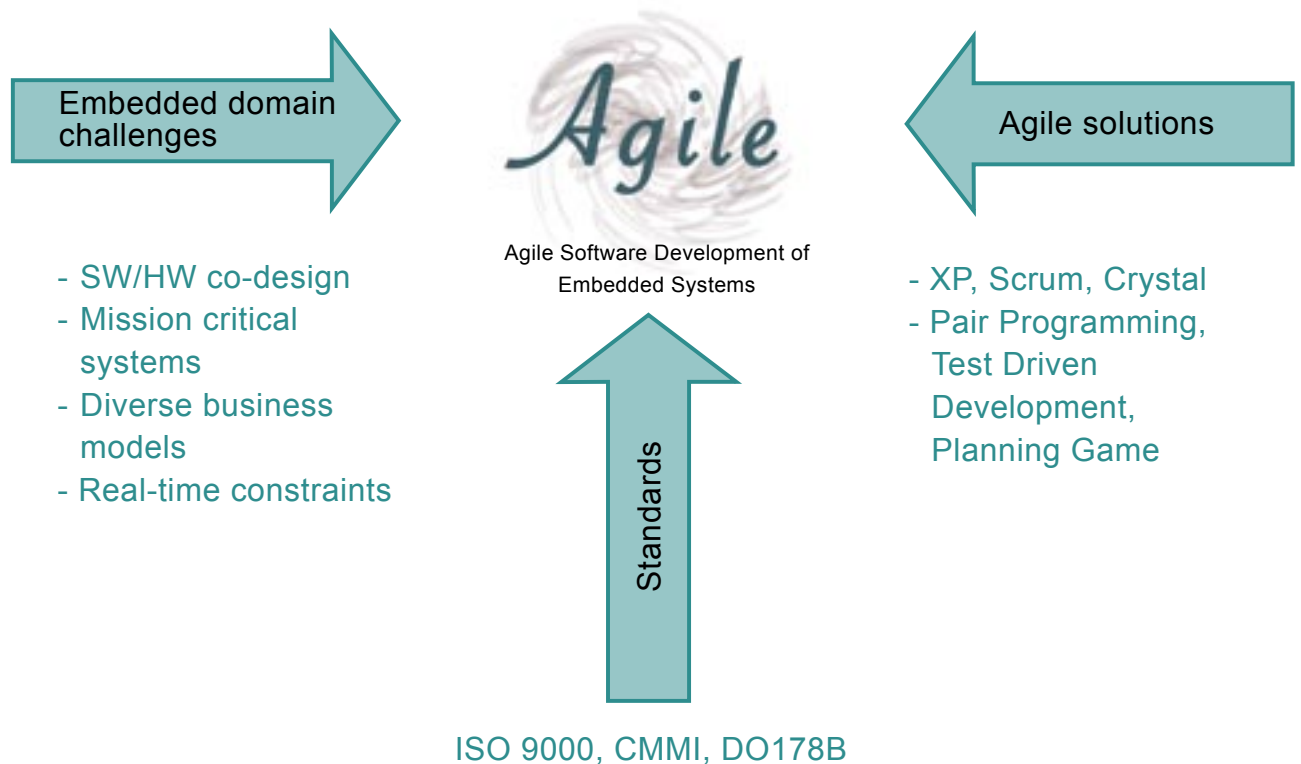
Expected Benefits of the Agile Solutions

Agile software development approaches have proven their effectiveness in small-scale application level software development:

- 10-300% increase in productivity, a 250% increase in value delivered to the customer
- Other empirically supported benefits include improved implementation & estimation skills, faster product integration, fewer schedule deviations and lower defect density

Problem Definition

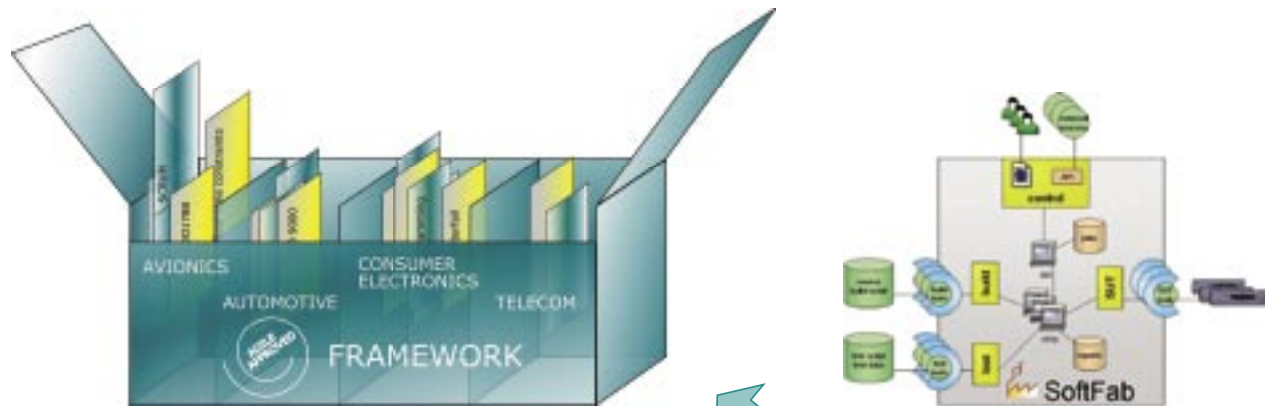
How to adapt Agile solutions to overcome the challenges of embedded domain while maintaining compliance to existing standards?





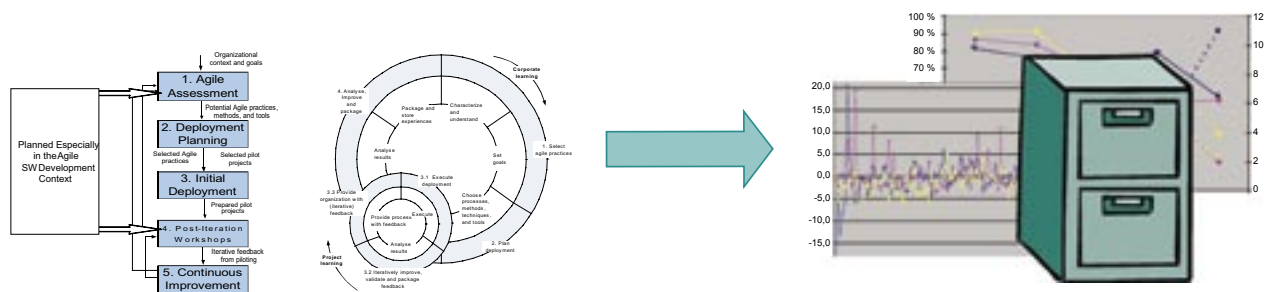
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Expected results: faster, better and cheaper!



Agile Framework

Integrated tool support



Agile Assessment & Deployment

Industry Impact & Experience Base

Active dissemination
Book on embedded Agile software development
Influence standards: IEEE 1648, DO178C



Impacting Beyond the Consortium





Faster, Better, Cheaper!

AGILE's result highlights

- **New innovations: Agile Assessment Model**
- **47 scientific publications**
- **IEEE 1648 & DO-178C standards under influence**
- **Agile tools with commercial potential developed**



- **25 industrial trials conducted/ongoing, 10 new trials estimated to commence by the end of 2005**
- **Business impact outstanding**

F-Secure (Finland)	Philips (Netherlands)
<ul style="list-style-type: none"> • Phantom Mobile-D™ trial • Mobile-D™ is a SW development method developed by VTT <ul style="list-style-type: none"> - 60% Faster (4M vs 12M) - 80% Cheaper (1PY vs 7PY) - 98% Better • Size: 7 persons, 10KLOC • New product (part of a larger package) • Complex embedded domain 	<ul style="list-style-type: none"> • Philips RaPiD7 trial • RaPiD7 is a documentation authoring method developed by Nokia <ul style="list-style-type: none"> - Tried out for crafting white cards for patents - 3-4 aimed for, results: 13 cards, delivered 7 patents - Done in one afternoon by one team - 400% increase in productivity

