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2 Introduction

This document gives an introduction to the training material developed for each of the *Integration Technical Business Cases* (ITBC) of the INTERESTED project, so this document is the link between the different training material provided by each ITBC. The main purpose is to give an overview over all the training material available, and to establish a starting point for users to find ITBCs for their domain and to find the corresponding documentation and training material.

For the training, each partner prepared PowerPoint presentations as training material, which function as a basis of learning to use the integration of the corresponding ITBC with the involved tools. Because it is the most practical and user-oriented way of providing training material, these PowerPoint slides were chosen to be part of the deliverable. For maximum usability, all sets of slides use a uniform structure, which the next section will introduce.

After that, a section is spent on giving an introduction to the Embedded Systems Guide Common Technical Baseline (CTB). The CTB was used to have a uniform means of positioning the ITBC and the tools in the typical technical workflow. It handles all phases from idea to maintenance, and is thus a very good means to depicting an overview. Each set of slides uses the CTB Design Tool View to show its scope and domain. This enables users to quickly select material best suited for them.

The provided training material follows a very practical approach in order to get users started quickly. There already exists detailed description in the form of deliverable documents for each ITBC, and the following table shows which document should be used in order to get a more theoretical and abstract view about the work that was done, as well as to explore technical details. Each domain provides two documents, a specification, and a prototype report, containing documentation of the corresponding ITBCs.

Domain	Specification Report	Prototype Report	ITBCs
System & Software Design	D2.1	D3.4.1	1, 2, 3, 4, 5, 6, 7, 9, 10
Networking & Execution Platform	D2.2	D3.4.2	13, 14, 15, 16, 17
Timing & Analysis Tools	D2.3	D3.4.3	19, 20

The final chapter of this introduction will give an overview over all ITBCs, depicted by using the established view provided by the CTB Design Tool View. This enables users to quickly select appropriate sets of slides.

2.1 Training Slides

Each ITBC provides its own training material as a set of slides, which can be easily used for training the integration the ITBC implements. In order to ease usage, each set of slides introduces its own purpose and the scope of the ITBC and its position on the CTB at the beginning, in a uniform format. This will help users to get a fast introduction to the corresponding topics.

Each set of slides has the following structure:

1. Title page: Gives number and name of ITBC, and the involved partners (1 slide)
2. An overview of the trainings material for a quick orientation in the set of slides (1 slide)
3. An introduction to the INTERESTED project, with those parts covered by the corresponding ITBC marked in red (1 slide)
4. An overview of the CTB, with those parts covered by the corresponding ITBC marked in colours. Each of the two partners will use a different colour to show the involvement in detail. (1 slide)
5. Workflow and architectural overview of the integration (1 slide)
6. A list of documentation the user needs for the corresponding tools individually (typically 1 slide)
7. Table of contents (typically 1 slide)
8. Tutorial structure (typically 1 slide)
9. The main part of the training material. This depends greatly on the scope of integration, but typically contains:
 - a. Brief introduction to those parts of the tools involved in the ITBC
 - b. Tools usage description and examples specific to the ITBC, for each tool, and possibly for additional integration tools
 - c. Use cases and examples as appropriate
10. Contact information (1 slide)

2.2 Common Technical Baseline (CTB)

This section will give an introduction to the Embedded Systems Guide Common Technical Baseline (CTB) used as a means to structure the overview over the ITBCs and to have a uniform way of categorising the integration.

The aim for the Common Technical Baseline (CTB) is to become a common language shared by the stakeholders (systems, software and service providers, system integrators, and public authorities), and to improve the collaboration between sectors.

The creation of the CTB was driven by the rising impacts of the Embedded Systems sector, for European industry, starting with the White Book in the Embedded Systems sector in France (2006, French Ministry of Industry, Syntec Informatique and the RNTL).

In 2007 followed the First Conference of the Embedded Systems sector in Paris and the Embedded Systems roadmap (by Syntec Informatique and the French Ministry of Industry).

In 2008 followed the creation of the CG2E: "Club des Grandes Entreprises de l'Embarqué", the French-German Conference on Embedded Systems in Paris (June 2008), and finally the study on Common Technical Baseline for Embedded Systems, funded by the French Ministry of Industry and four "Pôles de compétitivité".

The CTB tries to provide a Common Reference used for technical documentation, for contracts, job descriptions, calls for tender, collaborative research and development, information exchanges in general, reference for information, and training material, and general Information. To achieve this, the CTB offers a common reference of terms and concepts, across industrial sectors as well as a didactic tool to facilitate exchanges between different actors.

As a basis, the CTB structures system development as a three level system, with level 1 the high level views (typically provided graphically as diagrams) and level 3 the low level views (typically provided as text). Clearly, this document needs a high level view, an overview, for which the CTB contributes the following views: the System View, the Product Lifecycle View, the Design Tool View, and the Design Methods View.

The Design Tool View as shown in Figure 1 is best suited for the purpose of this document. It shows the different types of tools of the system, including their main inputs and outputs. Each ITBC can thus be positioned in this view in a natural way, because the view shows the work flow in the development of the system.

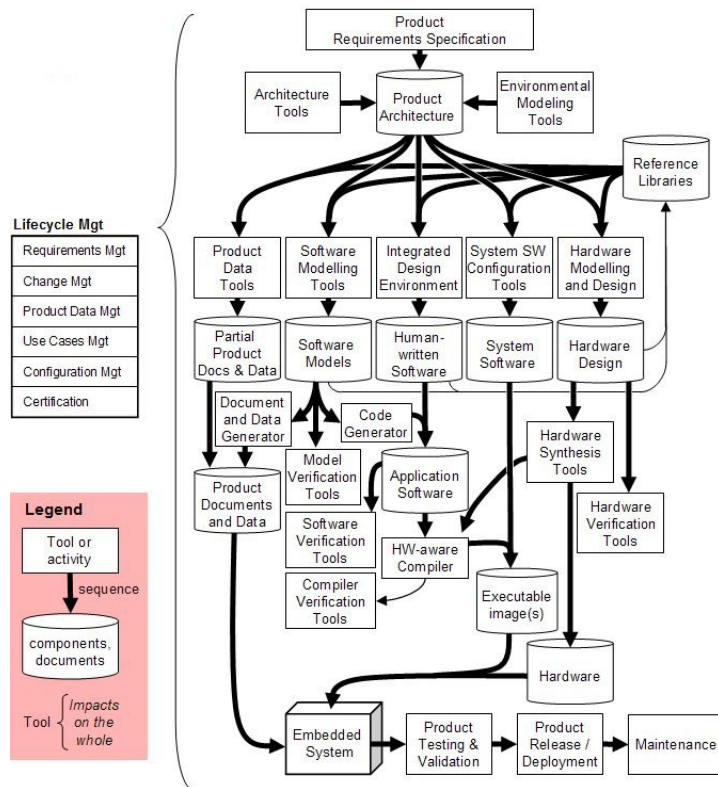


Figure 1: CTB: Design Tools View

Each trailing material provides one slide to position the ITBC in the overall workflow as defined by the Common Technical Baseline (CTB). This slide is also shown in Section 2.4 for the user's easy orientation.

2.3 Overview of the Integration Technical Business Cases (ITBCs)

This section will give an overview over the Integration Technical Business Cases (ITBCs). It will enable users to select the appropriate training material for the domain of interest.

For an orientation inside the INTERESTED project, the following table shows the involvement of the different partners and tools in the ITBCs, and also the corresponding work tasks (WTs).

	WT:	WT3.1									WT3.2					WT3.3	
		1	2	3	4	5	6	7	9	10	13	14	15	16	17	19	20
Atego	Artesan Studio	X						X									
AbsInt	a ³ aiT/StackAnalyzer								X			X	X			X	X
CEA List	Papyrus Sys/ML		X						X								
	Fluctuat						X										
	OASIS Psy C					X											
Evidence	RT-Druid							X									X
Esterel	Scade	X	X	X	X	X	X		X								
Symtavisio	Symta/S										X	X			X	X	
Sysgo	PikeOS				X			X			X	X	X				
TTTech	TTP										X	X		X			
	FlexRay			X											X		

Note that each column contains exactly two marks as each ITBC involves the integration of two tools.

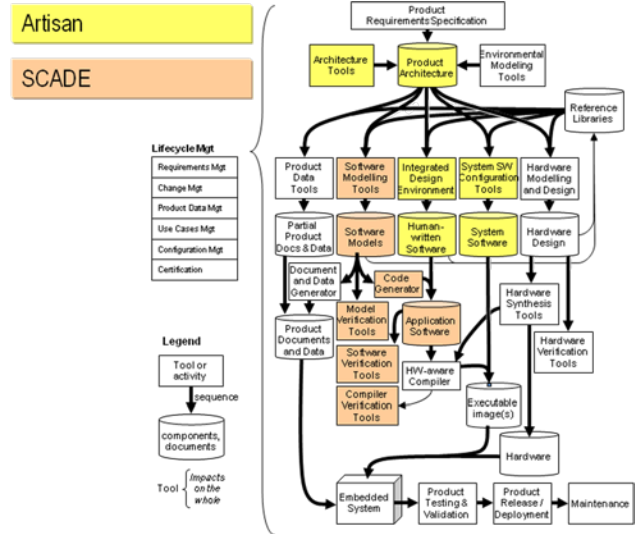
2.4 ITBC Scope Overview

In order to give an introduction and enable the user to select and use the training material in the different domains, this section will give an overview of each ITBC.

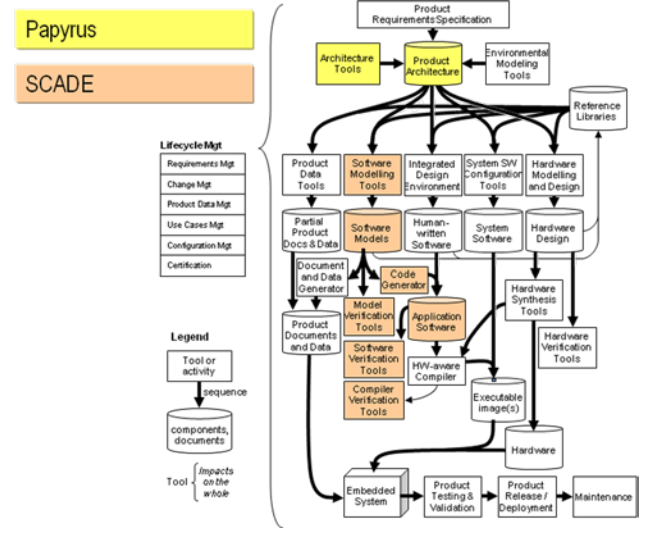
The overview is taken from the slides each ITBC provided. The Design Tool View of the Common Technical Baseline (CTB) is coloured for those tools that are involved in the ITBC. To find appropriate tool chain integrations, the following table allows browsing the individual overviews.

To use this guide, first select your domain and find an appropriate node in the CTB Design Tool View. With this information, you can browse the subsequent pages to find appropriate training material.

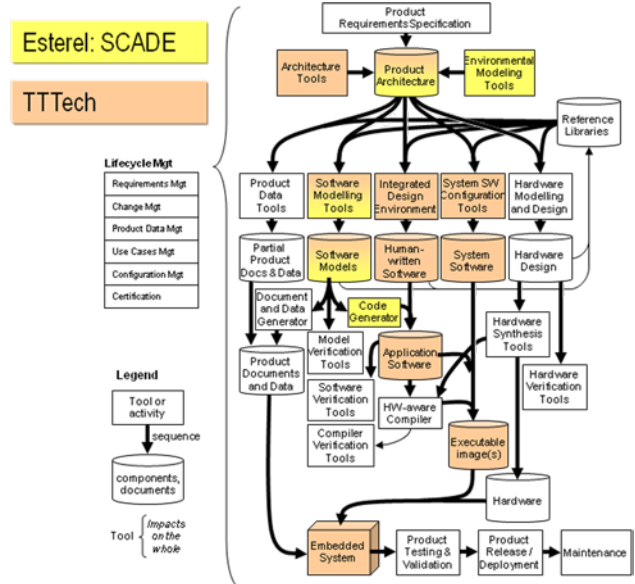
2.4.1 ITBC-1 Atego Artisan Studio – Esterel Scade



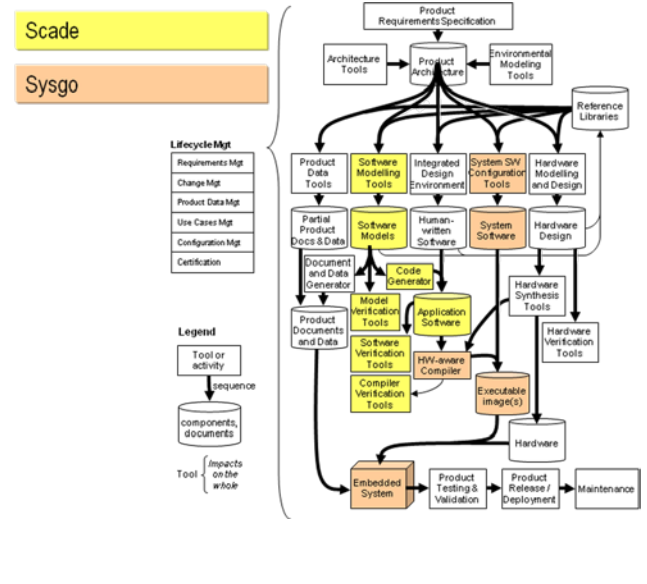
2.4.2 ITBC-2 CEA List Papyrus Sys/ML – Esterel Scade



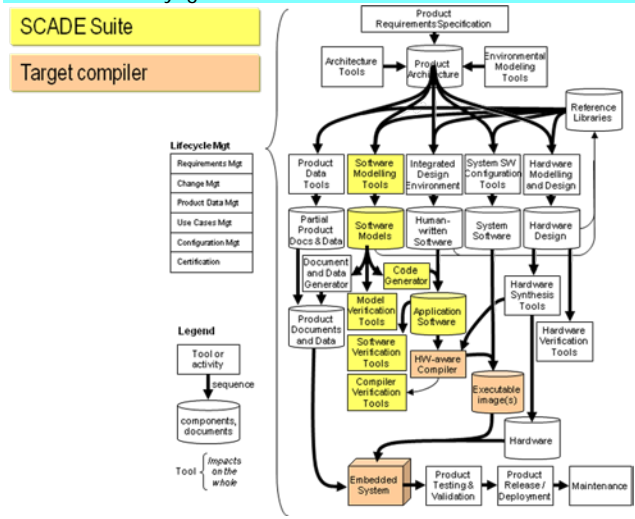
2.4.3 ITBC-3 TTTech FlexRay – Esterel Scade



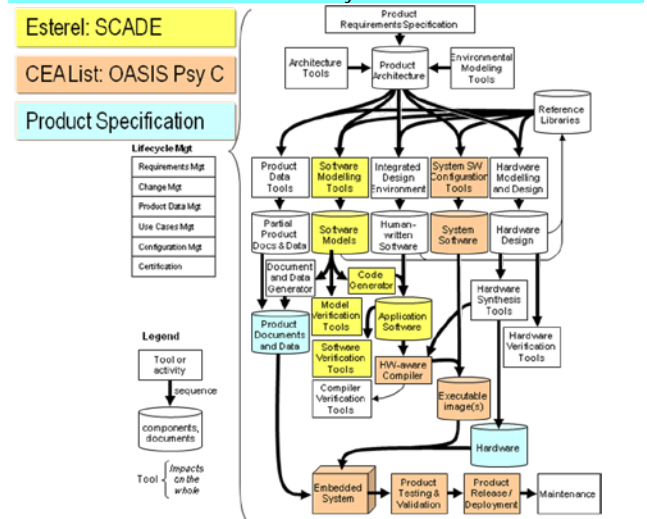
2.4.4 ITBC-4 Sysgo PikeOS – Esterel Scade, 1. PikeOS



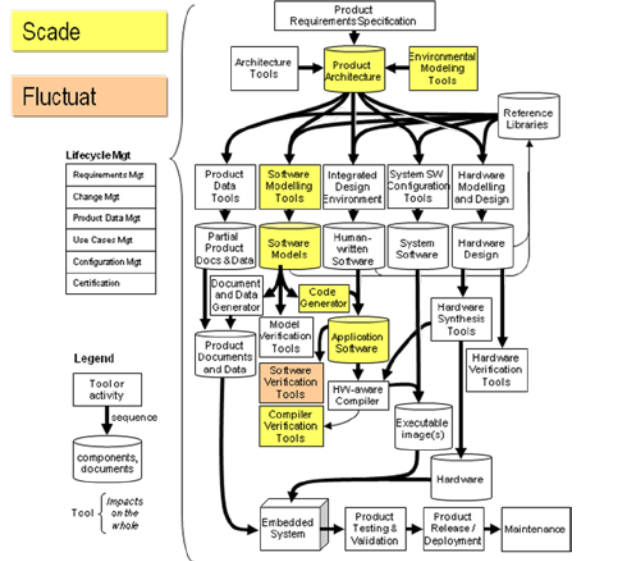
2.4.5 ITBC-4 Sysgo PikeOS – Esterel Scade, 2. Ada



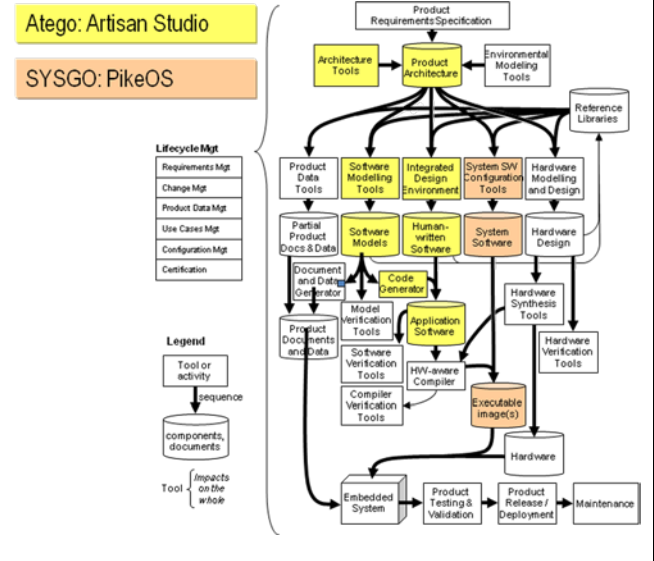
2.4.6 ITBC-5 CEA List OASIS Psy C – Esterel Scade



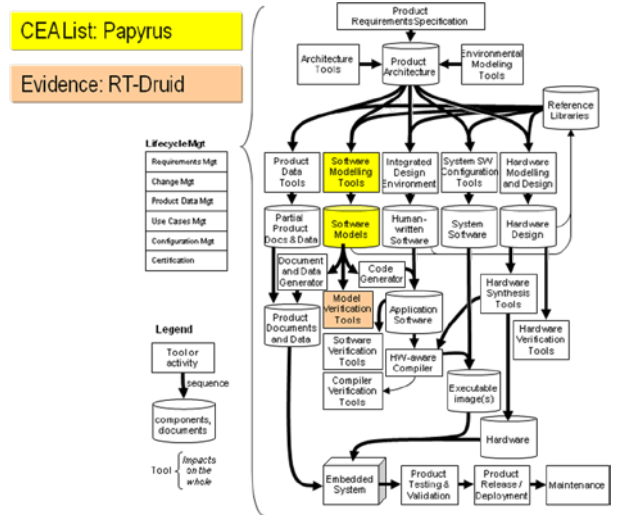
2.4.7 ITBC-6 CEA List Fluctuat – Esterel Scade



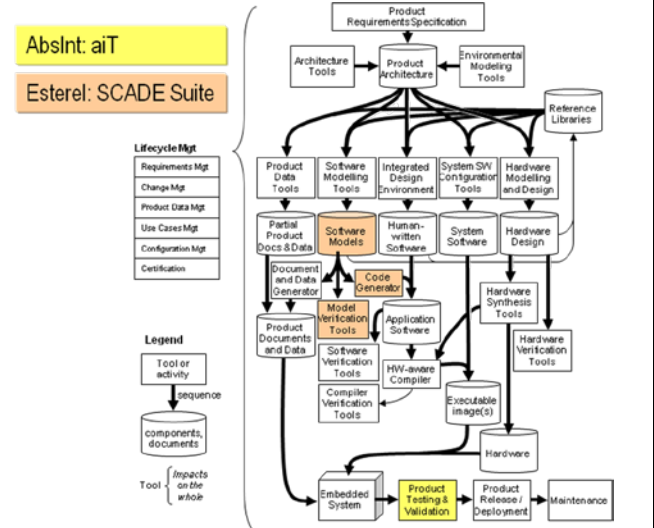
2.4.8 ITBC-7 Atego Artesan Studio – Sysgo PikeOS



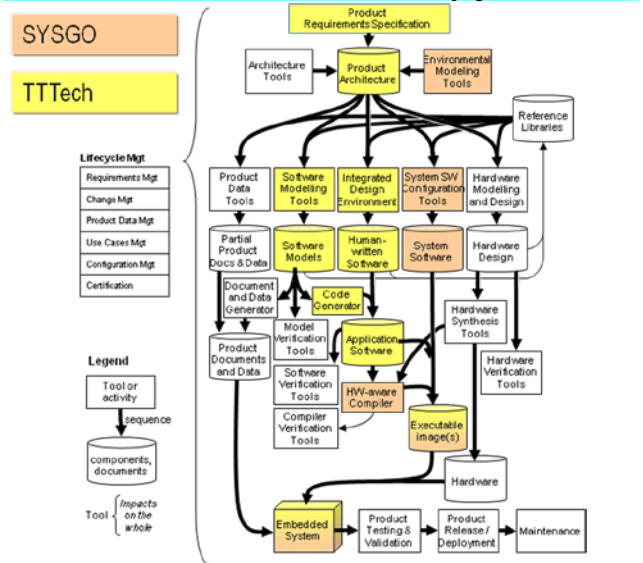
2.4.9 ITBC-9 CEA LIST Papyrus – Evidence RT-Druid



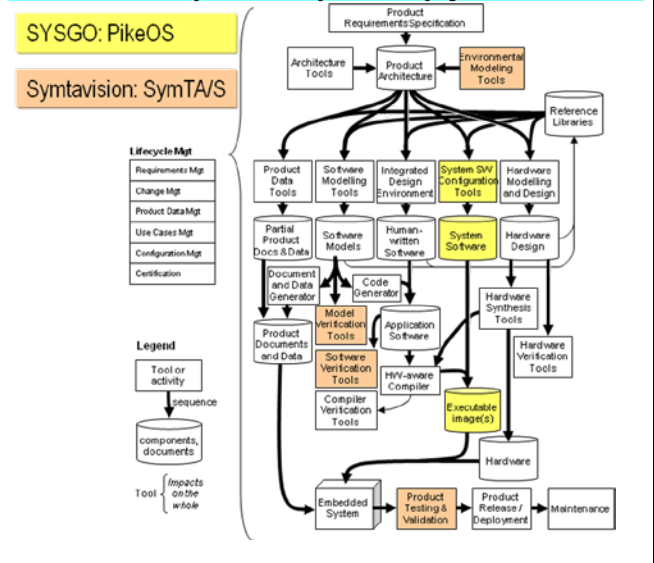
2.4.10 ITBC-10 Absint a³ – Esterel Scade



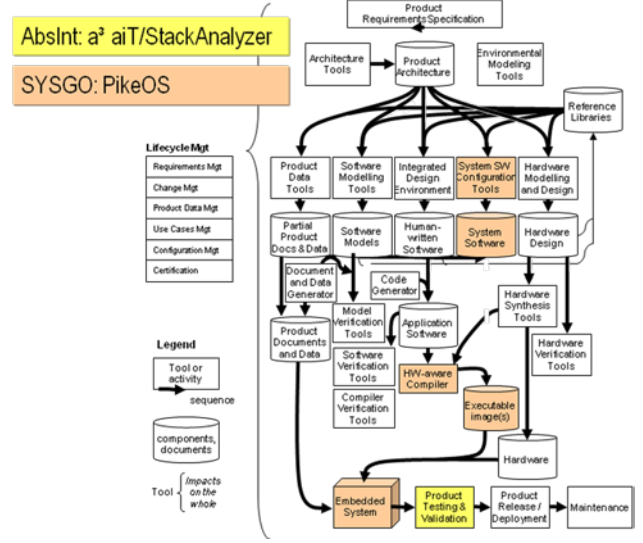
2.4.11 ITBC-13 TTTech TTP/TTEthernet – Sysgo PikeOS



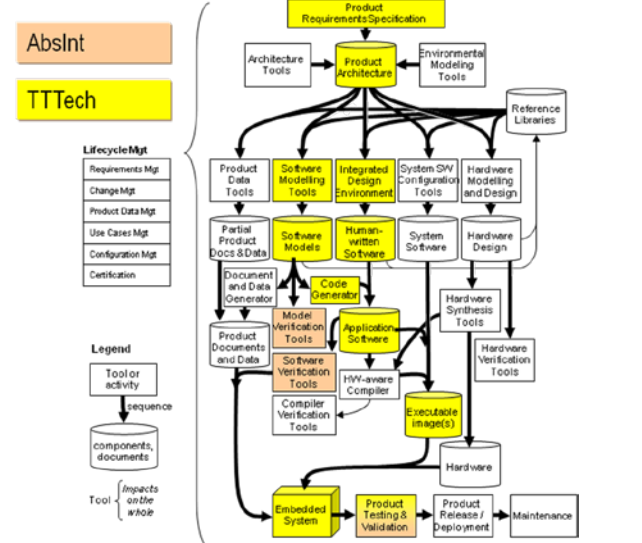
2.4.12 ITBC-14 Symtavision Symta/S – Sysgo PikeOS



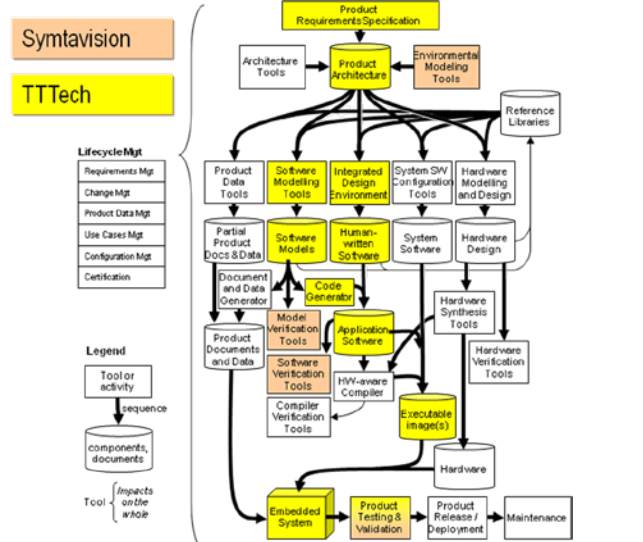
2.4.13 ITBC-15 AbsInt a³ – Sysgo PikeOS



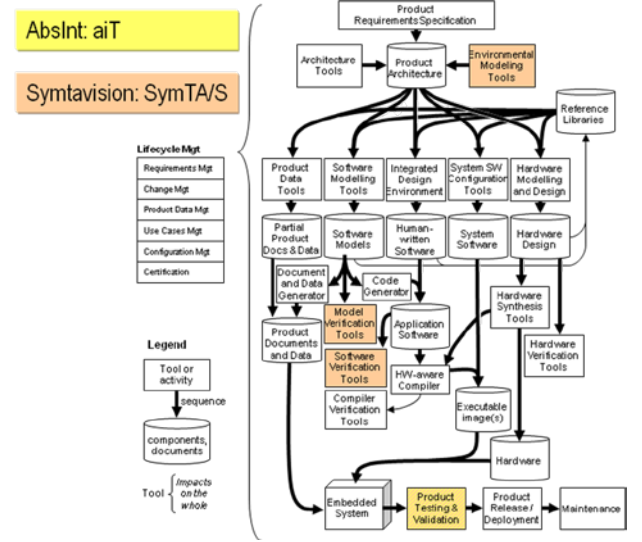
2.4.14 ITBC-16 AbsInt a³ – TTTech FlexRay/TTP



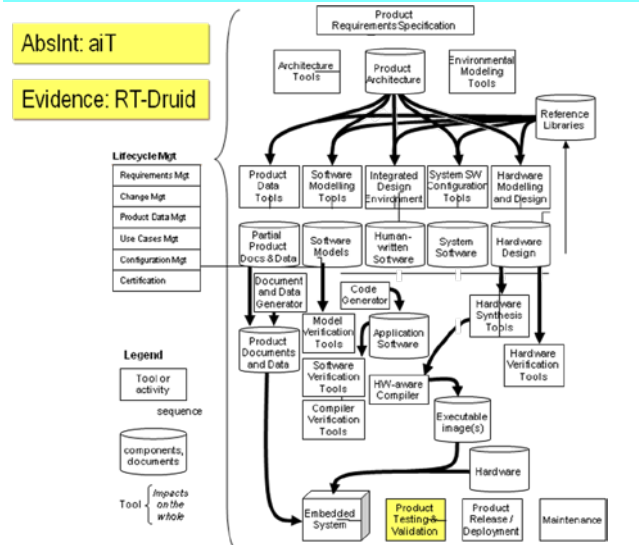
2.4.15 ITBC-17 Syntavision Symta/S-TTTech TTP/TTethnet



2.4.16 ITBC-19 Syntavision Symta/S – AbsInt a³



2.4.17 ITBC-20 Evidence RT-Druid – AbsInt a³



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- [CTBWeb] Embedded Systems Guide, Common Technical Baseline, <http://embedded-systems-portal.com/CTB/>
- INTERESTED Deliverable D2.1: System & Software Design Domain
- INTERESTED Deliverable D2.2: Networking & Execution Platform Domain
- INTERESTED Deliverable D2.3: Timing & Analysis Tools ITBC Specification Report
- INTERESTED Deliverable D3.4.1: System & Software ITBC Prototypes
- INTERESTED Deliverable D3.4.2: Networking & Execution Platform and Timing & Analysis Domain Design & Implementation Description ITBC Prototypes
- INTERESTED Deliverable D3.4.3: Timing & Analysis Tools ITBC Prototypes
- INTERESTED Training Slides for all ITBCs