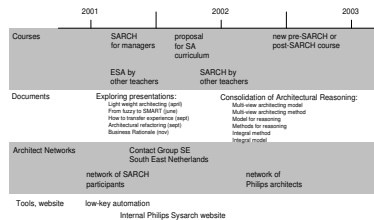


# The Gaudí Project

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## Abstract

The Gaudí project is described. The goals of the project, the way of working, and an outline for the period 2001 to 2003. The deliverables in terms of documents are positioned by means of a two-dimensional map. Courses based on the Gaudí material are described. The current status of the courses is given.

### Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

All Gaudí documents are available at:  
<http://www.gaudisite.nl/>

version: 3.0

status: draft

July 1, 2011

# 1 Introduction

The highly incremental approach of the Gaudí project prohibits the publication of a conventional milestone plan. Instead this document describes the goals and the approach of the project and shows an outlook of the current intention of the project.

## 2 The Gaudí Project

The Gaudí project goals are shown in Figure 1.

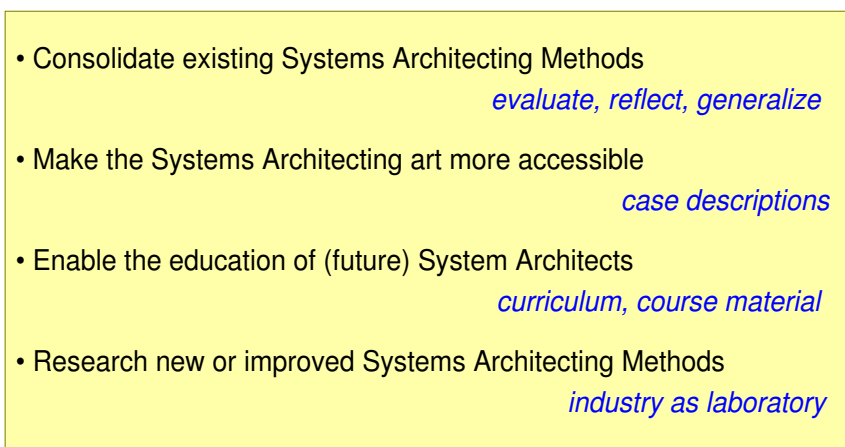
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- Consolidate existing Systems Architecting Methods  
*evaluate, reflect, generalize*
  - Make the Systems Architecting art more accessible  
*case descriptions*
  - Enable the education of (future) System Architects  
*curriculum, course material*
  - Research new or improved Systems Architecting Methods  
*industry as laboratory*

Figure 1: Goals of the Gaudí project

These goals are realized according to a indicative outlook, see Figure 2. The contents of the project will cover all aspects which are covered by the system architect, as outlined in [1] which explains Figure 3.

The process which will be followed is derived from the open source software development:

- frequent releases
- early accessibility (in infancy stage)
- encouragement of further distribution
- aimed at maximum feedback

The original masterplan 4 clearly shows the short iteration cycles as well as the more or less concurrent development of content and tools and environment.

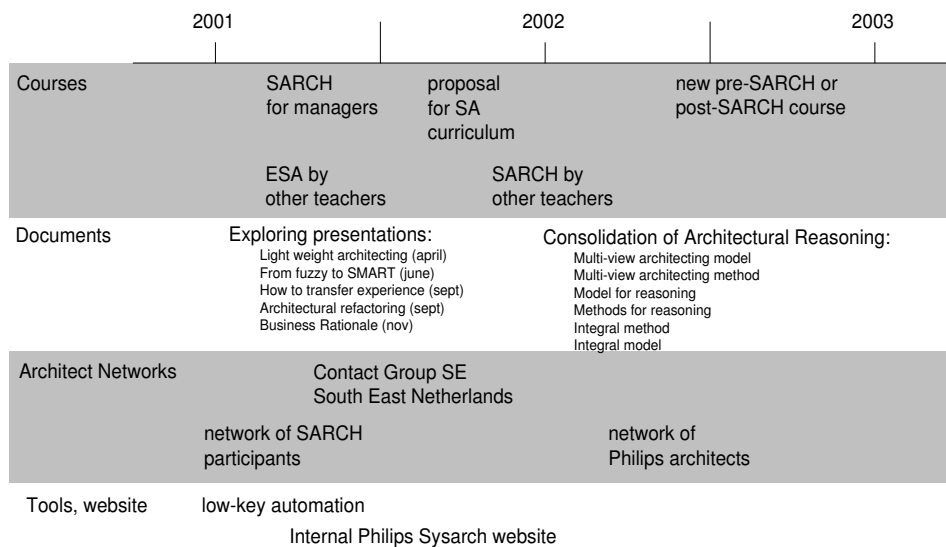


Figure 2: Outlook of the Gaudí project for 2001-2003

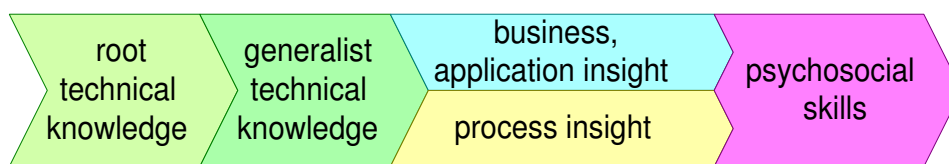


Figure 3: Growpath of a System Architect

### 3 Map of Gaudí documents

The documents produced for the Gaudí project cover many different subjects from many different viewpoints. No single preferred reading order exists. To help in positioning the articles a two dimensional map of the documents is made, see 5.

The horizontal dimension is the scope, at the left hand side the maximum scope is present, at the right hand side we zoom in on specific architecture issues.

The vertical "dimension" is much more heterogeneous. It describes the type of message or information in the document. The center of this axis addresses the core: **What?**, surrounded by **Basic definitions and principles**, **How** and **Who**. At the top of this axis the more opiated articles are present. At the bottom are the more practical **How-to's** and the lessons to be learned from the past in the **pitfalls**.

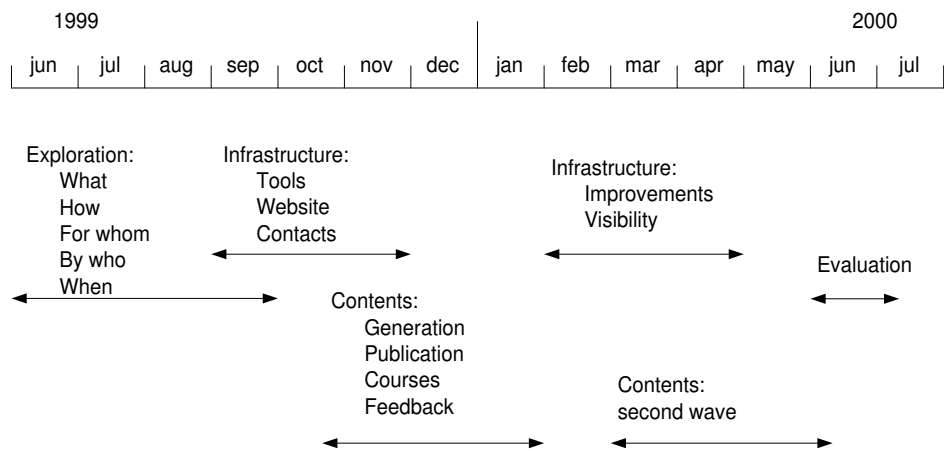


Figure 4: Original Masterplan of the Gaudí project

## 4 Courses

Figure 6 shows the courses which are given on the basis of the Gaudí material. These courses provide valuable feedback for the Gaudí project. In table 1 is shown how often these courses have been given at this moment.

Course	Abbreviation	Number of courses before April 2002
System Architecture for Managers	MSARCH	1
System Architecture	SARCH	14
Embedded Systems Architecting, Stakeholders	ESA	5 internal, 3 EESI
Requirements Engineering OOTI	OOTI	3

Table 1: Status of the courses based on the Gaudí material

The course are given by means of "modules". These modules address one particular viewpoint or issue, which normally is treated in a half day. The presentations in every module are a few presentations from the original Gaudí presentations, typical 3 presentations per module. Table 2 shows the coverage of the courses with respect to these modules.

Since the available material per module is much more than can be covered in half a day, only a subset is addressed in a course. The highly interactive nature of this course has as a consequence that every course differs with respect to the addressed subjects.

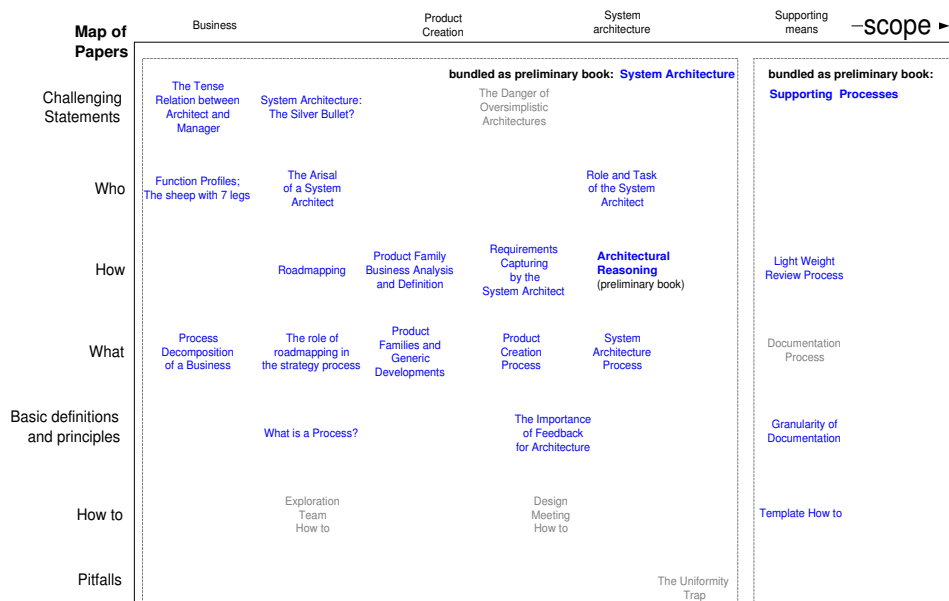


Figure 5: Map of Gaudí documents

## 5 Acknowledgements

The participants of the courses have provided explicit and implicit feedback on the project, the courses and the Gaudí documents.

## References

- [1] Gerrit Muller. The arisal of the system architect. <http://www.gaudisite.nl/MaturityPaper.pdf>, 1999.
- [2] Gerrit Muller. The system architecture homepage. <http://www.gaudisite.nl/index.html>, 1999.

## History

**Version: 3.0, date: November 24, 2009 changed by: Gerrit Muller**

- significant update, based on Stevens Web based presentation
- added productivity
- lowered status to draft

Course	Abbreviation	Duration (in days)	Participants per course	Target audience
System Architecture	SARCH	5	16	architects stakeholders of architects
Management SARCH	MSARCH	2	16	management teams
Embedded Systems Architecting; Stakeholders	ESA	3	16	potential architects
Requirements Engineering as part of OOTI curriculum	OOTI	5	12-18	post-doctoral students
Embedded Systems context	EScontext	4	30	masters students
Execution Architecture (with Ton Kosteljik)	EXARCH ASP	4.5	16	SW designers architects
Multi-Objective System Architecting and Design	MOSAD	3.5	16	designers architects
System Modeling and Analysis	MA611	3.5	16	designers architects

Figure 6: Table of courses based on the Gaudí material

- added document modularity
- positioning books and courses
- added productivity
- added document states
- made outlook for 2010-2012

**Version: 2.2, date: January 8, 2004 changed by: Gerrit Muller**

- added research of methods to the project goals

**Version: 2.1, date: April 10 2002 changed by: Gerrit Muller**

- Management SARCH added
- course status updated

**Version: 2, date: June 8th 2000 changed by: Gerrit Muller**

- rewrite of **Introduction**
- changed masterplan in *original* masterplan
- replaced "System Architecture" by "System Architecting" in the list of goals
- added outlook 2001-2003
- added section about documents, including map of documents
- added section **Courses**
- added an abstract

**Version: 1, date: January 20 2000 changed by: Gerrit Muller**

- Moved Building Bridges to other document

**Version: 0, date: November 16 1999 changed by: Gerrit Muller**

- Created Archipelago.

No.	Content	MSARCH	SARCH	ESA	OOTI
0	Course information (course-specific), Gaudí project	+	+	+	+
1	Positioning the system architecture process, product creation process	+	+	+	
2	Role and task of the system architect	+	+	+	
3	Requirements capturing	+	+	+	+
4	System architect toolkit		+		
5	Roadmapping	+	+	+	+
6	Product families, generic developments	+	+	+	
7	Documentation, reviewing and other supporting processes		+	+	
8	The role of software in complex products		+		
9	Psycho-social side		+	some	
10	Wrap up, expectations, how to continue, evaluation	+	+		
11	Human Resource Management wrt architects	+			

Table 2: *Modules and coverage per course*