CTT Course System Architecture (SARCH)
Course Information, module 0

by *Gerrit Muller*

Philips Research IST-SWA-IA

Abstract

Course System Architecture Introduction

4th January 2002
status: draft
version: 1

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Abstract

This presentation describes the course System Architecture by the Center for Technical Training CTT. Trainer is Gerrit Muller. The course will be repeated on a later date. At this moment this course is only accessible for Philips Employees.

The course is set up to make the art of system architecting more accessible. The course will address a wide spectrum of issues in relation with system architecture,

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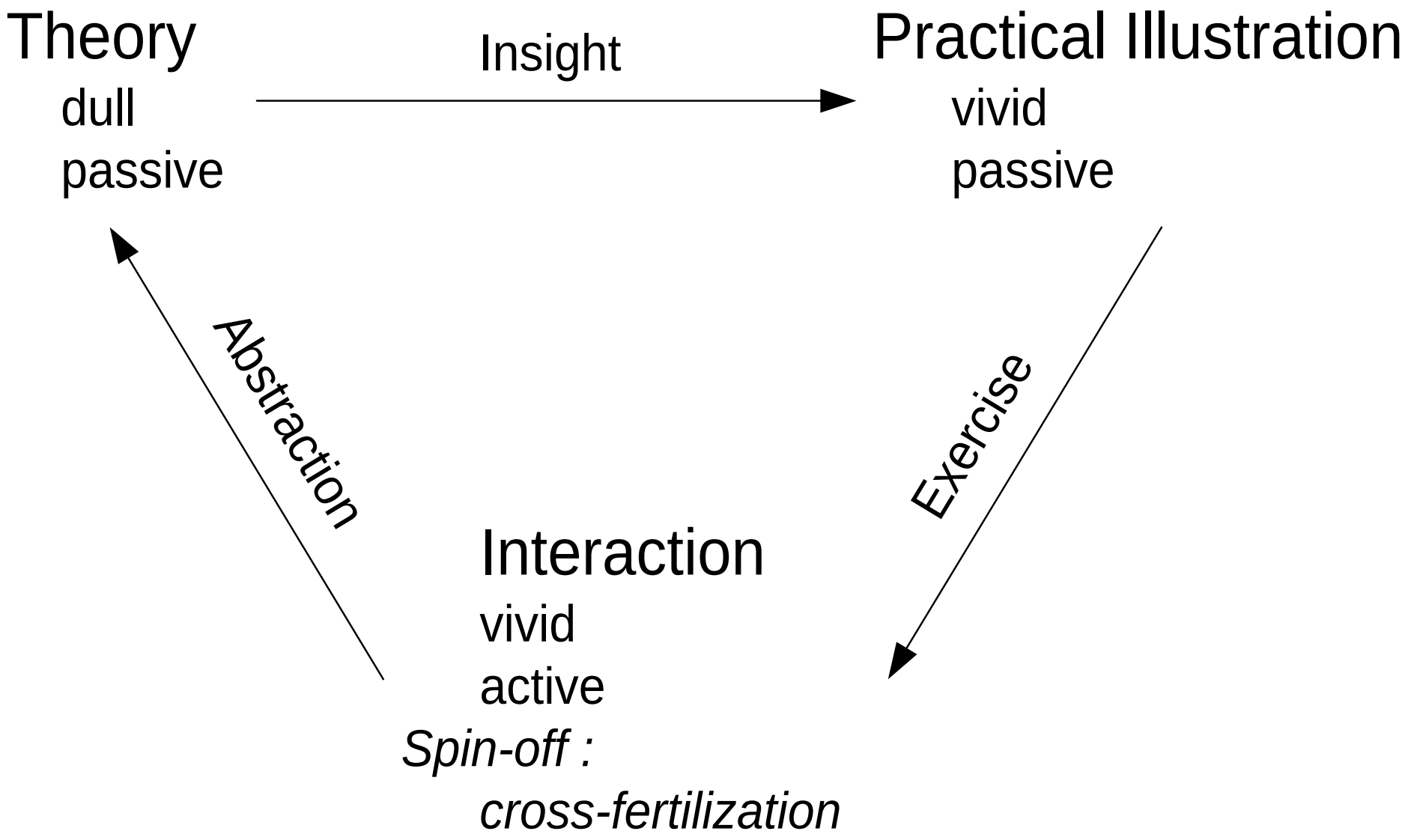
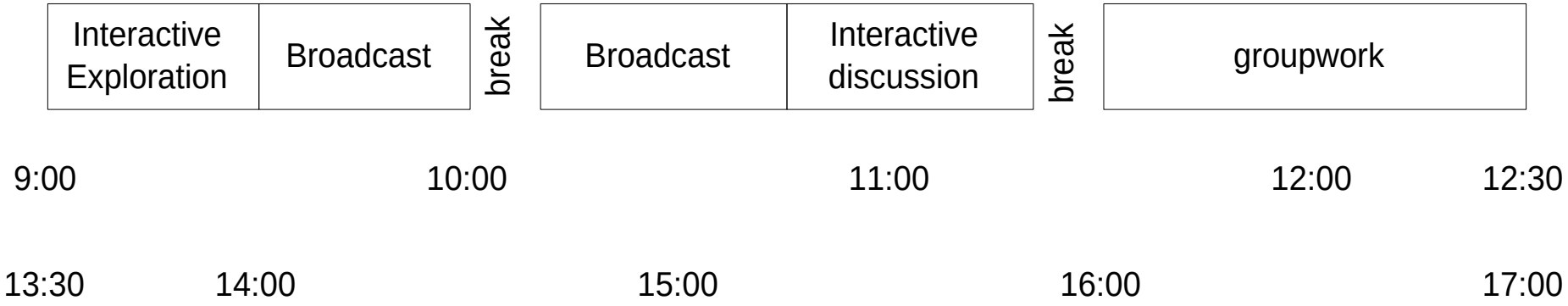
Program

time	subject
day 1 Morning	Positioning the System Architecture Process, Product Creation Process
day 1 Afternoon	Role and Task of the System Architect
day 2 Morning	Requirements Capturing
day 2 Afternoon	System Architect Toolkit
day 3 Morning	Roadmapping
day 3 Afternoon	Product Families, generic developments
day 4 Morning	Documentation, reviewing and other supportive processes
day 4 Afternoon	The role of Software in complex products
day 5 Morning	Psycho Social side
day 5 Afternoon	Wrap up, Expectations, How to continue, Evaluation

Structure


Theory
dull
passive
Insight
Practical Illustration
vivid
passive
Abstraction
Exercise
Interaction
vivid
active
Spin-off :
cross-fertilization

Timing Template of one subject



Rules of the Interactive Parts

- Your contribution is essential.

- Don’t monopolize the time, everyone also the quiet people should have the opportunity to contribute;

  The facilitator will intervene if the contribution is limited to a small group of participants.

- Respect the contribution of others;

  Opinions can’t be wrong, difference of opinion is normal and called pluri-formity.

- The course format is highly experimental and based on improvisation, constructive proposals are welcome;

  it is your course! Regular evaluations will give the opportunity to influence the rest of the course.

Rules of the Broadcast Parts

- Please write your questions/remarks/statements on yellow stickers and attach them at the end on the P-flip.

  These will be used in the interactive section for discussion and to increase insight.

- Short clarification questions are welcome,

  discussion will take place in the interactive part.

- Stupid questions don’t exist. Learning is based on **safe** and **open** interaction.

  Very individual oriented questions can be referred to a break or after the session.

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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.

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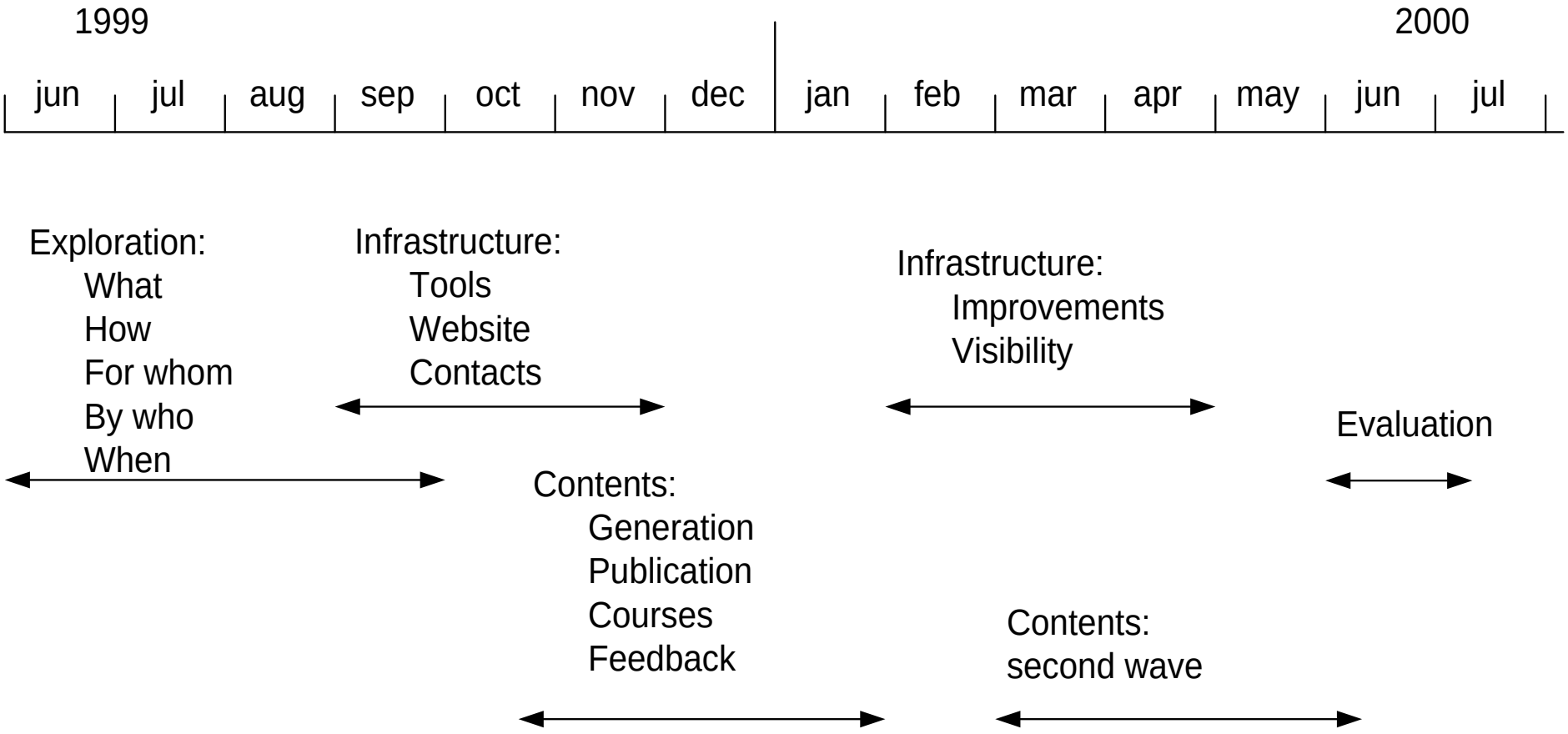
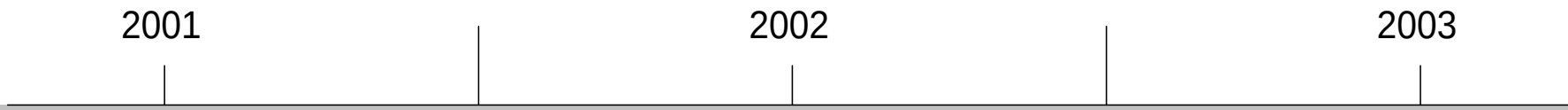
Goals of the Gaudí Project

- Consolidate existing System Architecting Methods
- Make the System Architecting art more accessible
- Enable the education of (future) System Architects

Concurrent Incremental Approach

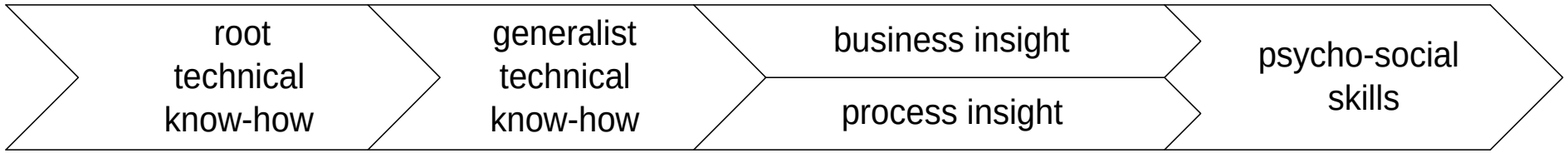


Outlook 2001-2003



Courses	SARCH for managers	proposal for SA curriculum	new pre-SARCH or post-SARCH course
	ESA by other teachers	SARCH by other teachers	
Documents	Exploring presentations: Light weight architecting (april) From fuzzy to SMART (june) How to transfer experience (sept) Architectural refactoring (sept) Business Rationale (nov)	Consolidation of Architectural Reasoning: Multi-view architecting model Multi-view architecting method Model for reasoning Methods for reasoning Integral method Integral model	
Architect Networks	Contact Group SE South East Netherlands		
	network of SARCH participants	network of Philips architects	
Tools, website	low-key automation		
	Internal Philips Sysarch website		

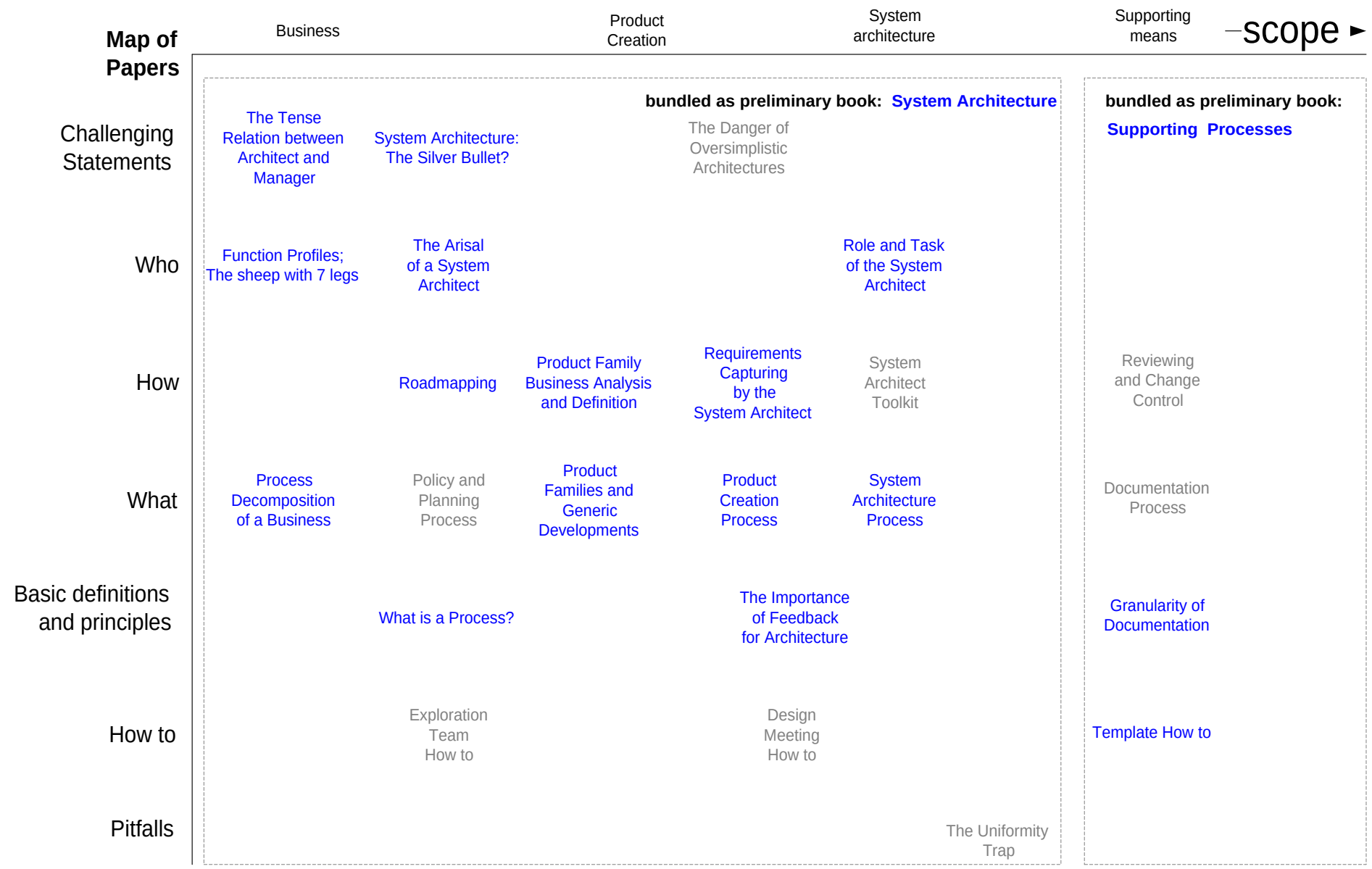
Growth of the System Architect



Gaudí Process

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

Positioning Gaudí Documents



Courses based on Gaudí Material

Course	Abbreviation	Duration (in days)	Participants per course	Target audience
System Architecture	SARCH	5	16	Architects Stakeholders of architects
Embedded Systems Architecting; Stakeholders	ESA	3	16	Potential architects
Requirements Engineering as part of OOTI curriculum	OOTI	5	12-18	Post-doctoral students

Status of Courses

Course	Abbreviation	Number of courses before July 2001
System Architecture	SARCH	9
Embedded Systems Architecting, Stakeholders	ESA	3 internal, 2 EESI
Requirements Engineering OOTI	OOTI	2

Course Modules

No.	Content	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	+		