

The Gaudí Project

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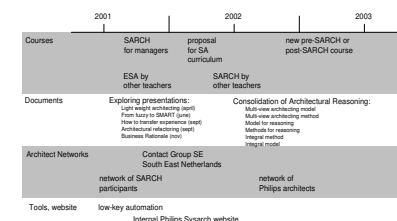
Abstract

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.

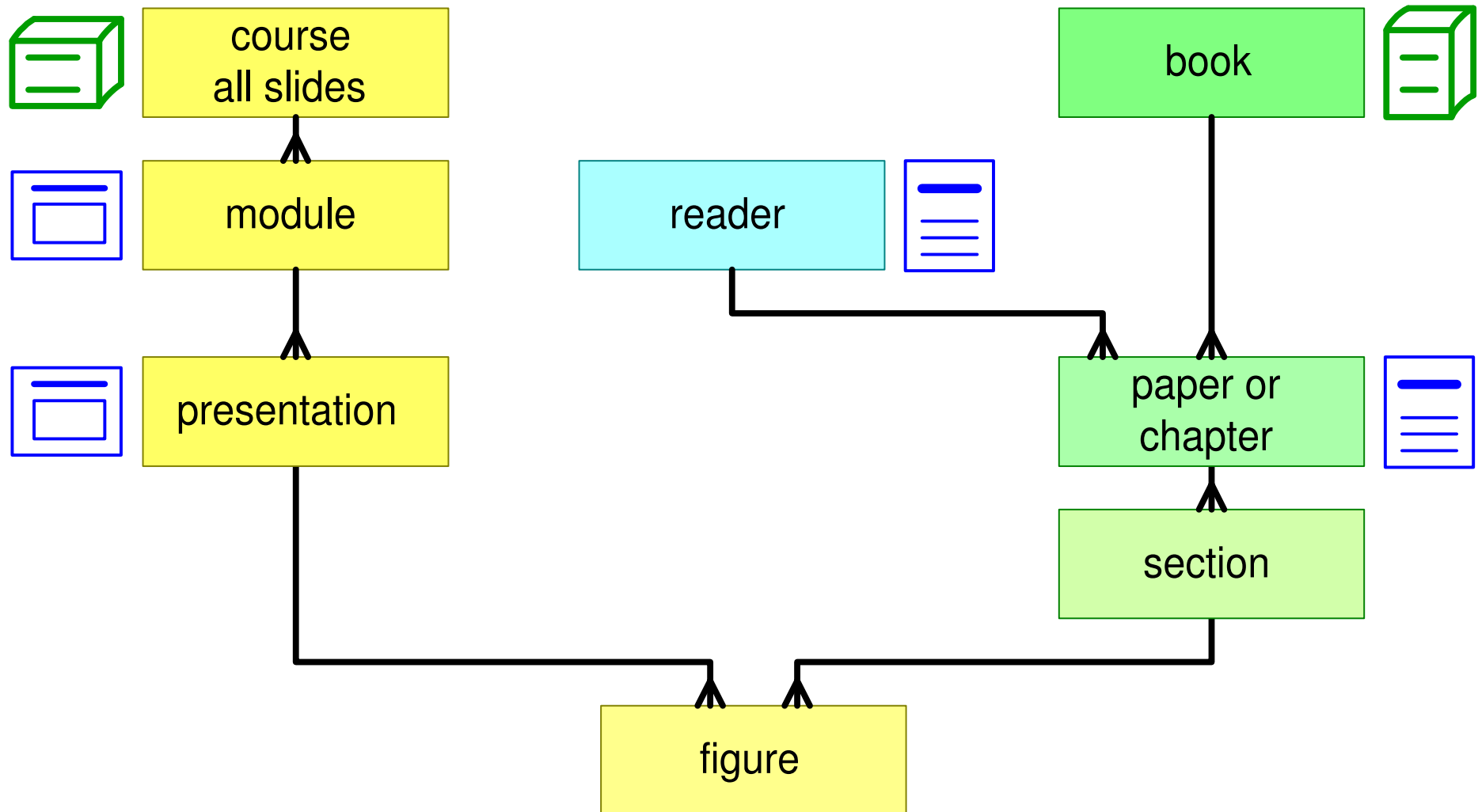
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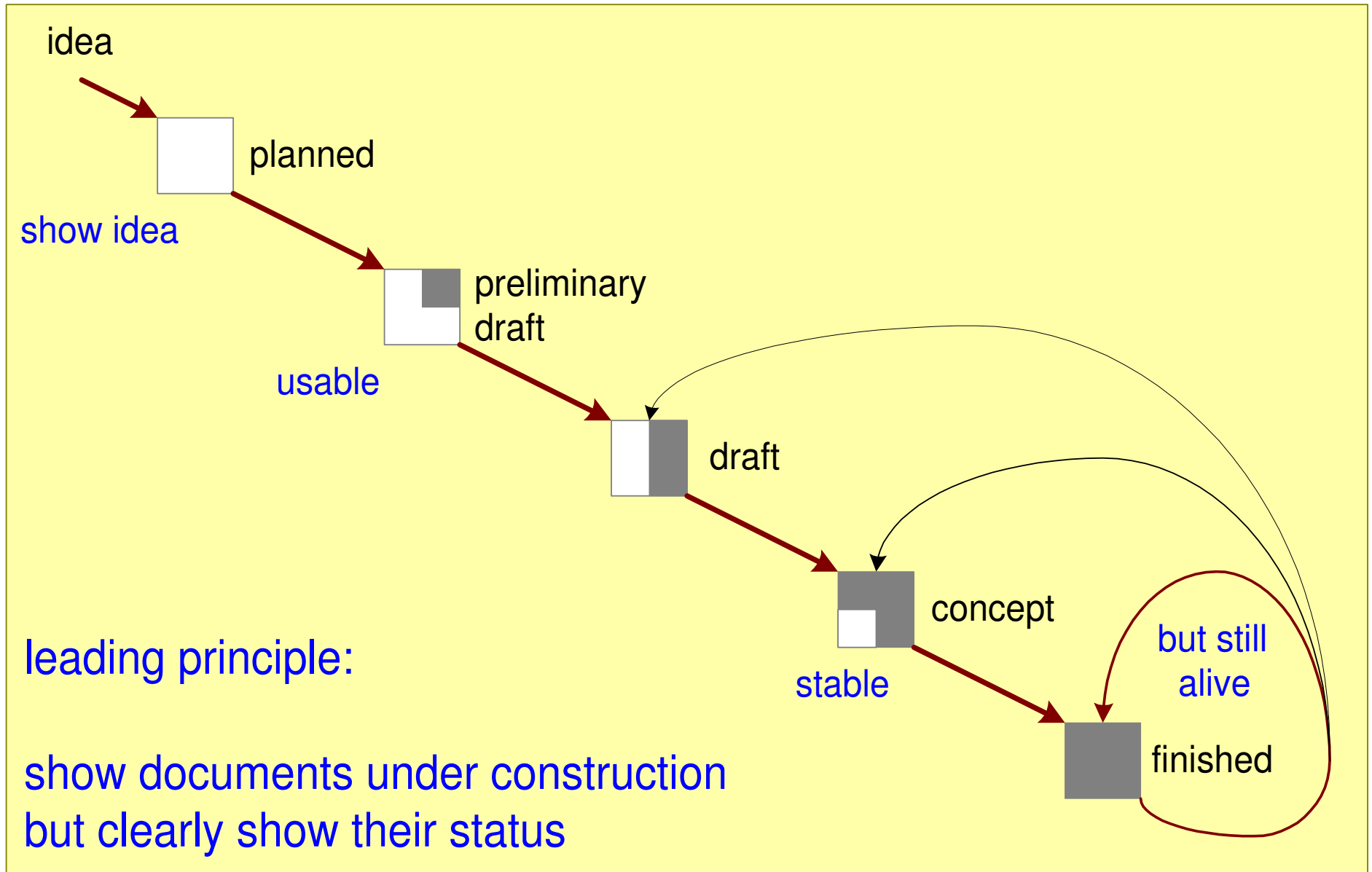
Goals of the Gaudí Project

- 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

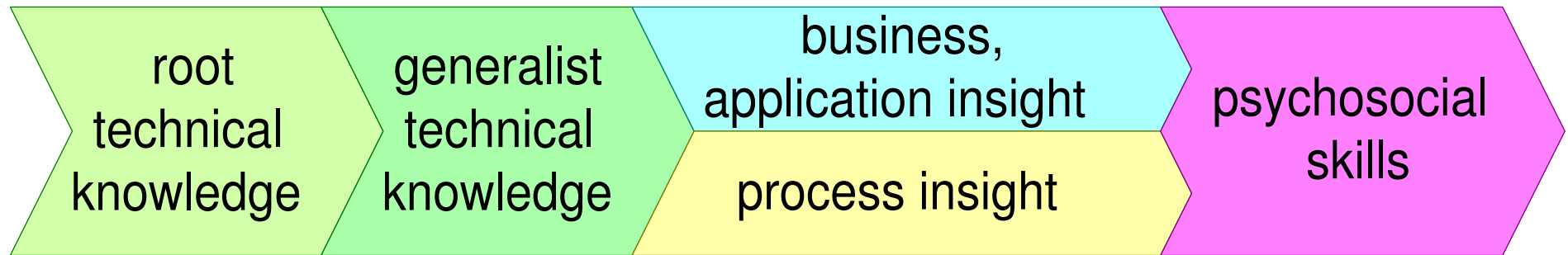
Modular approach



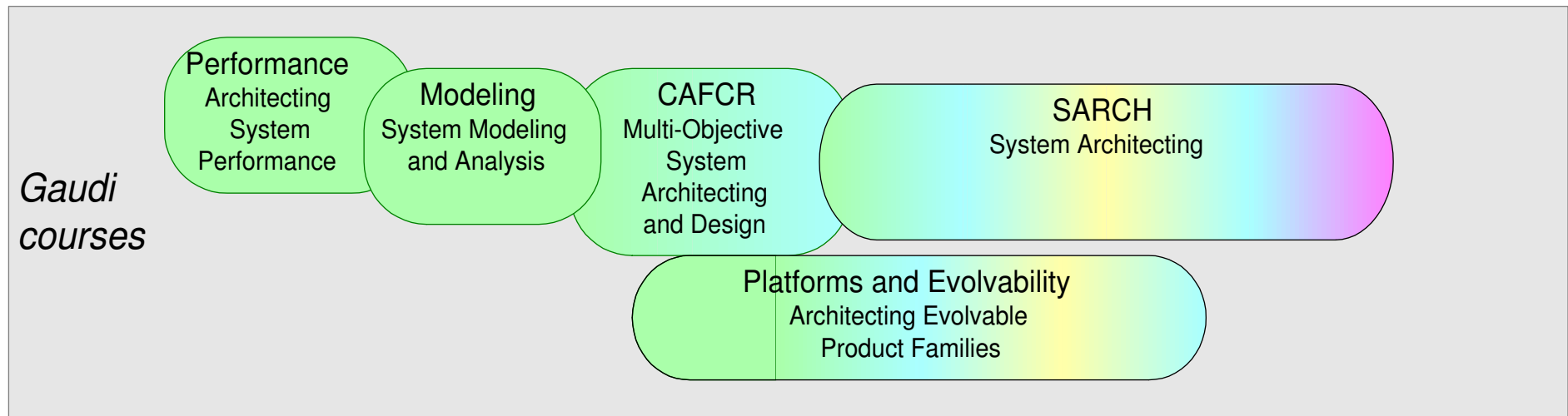
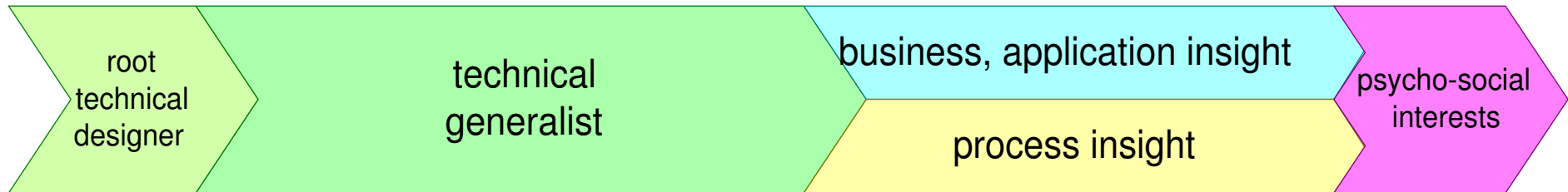
Show Early to Get Feedback



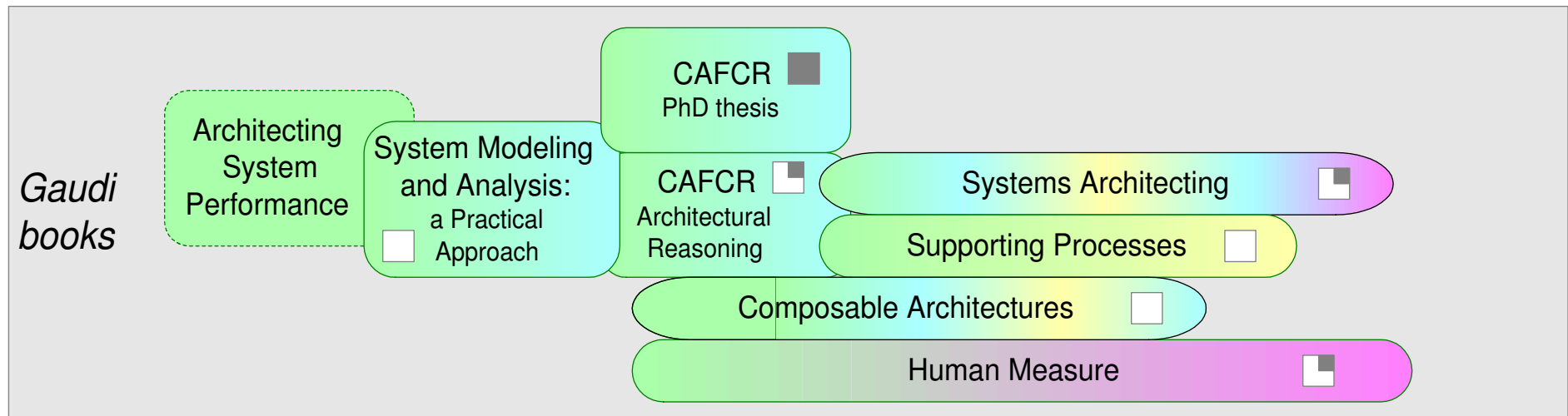
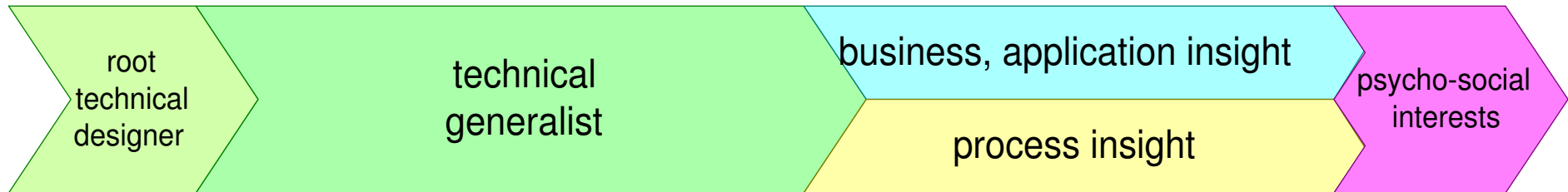
Growth of the System Architect



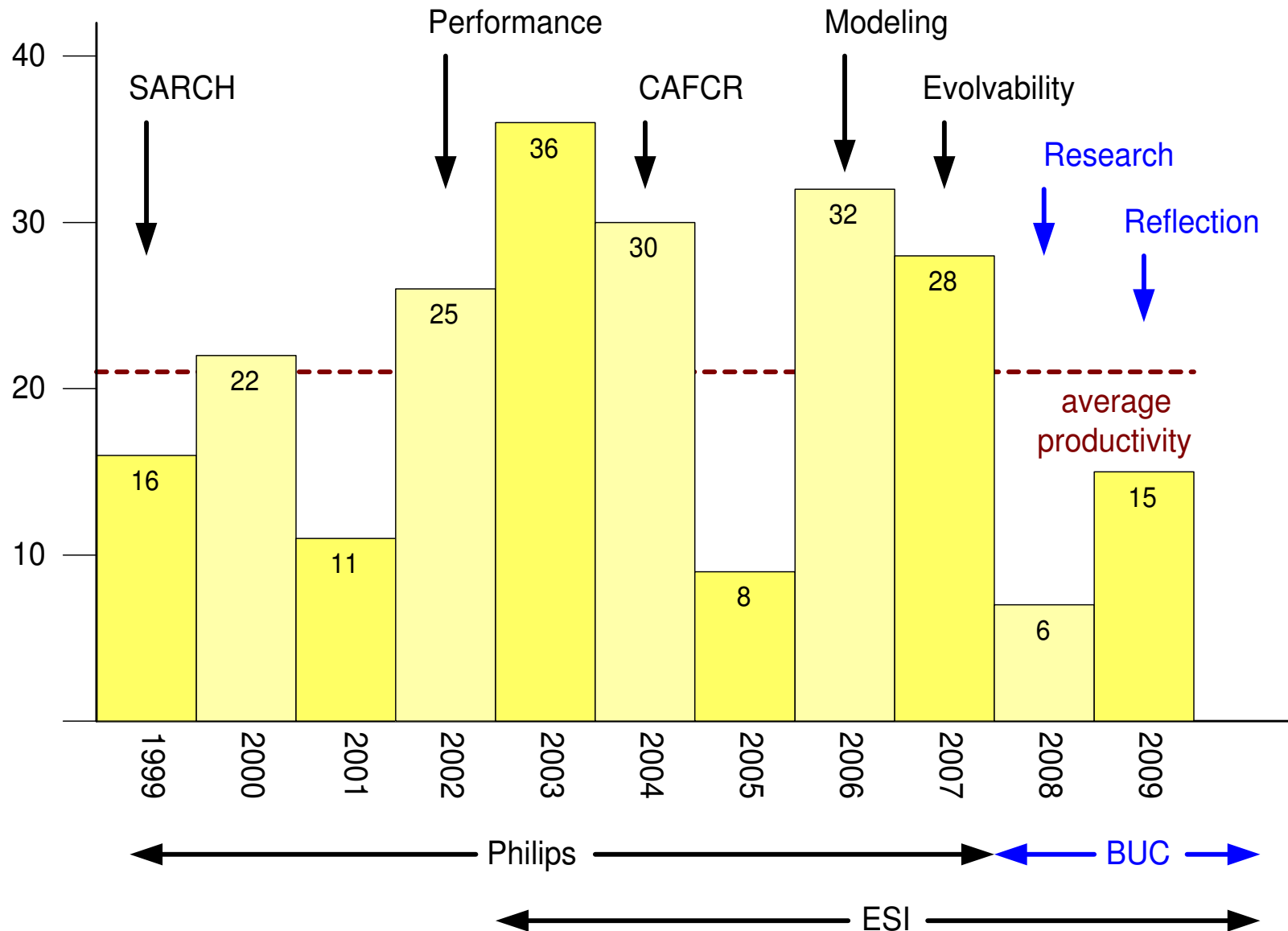
Positioning Courses



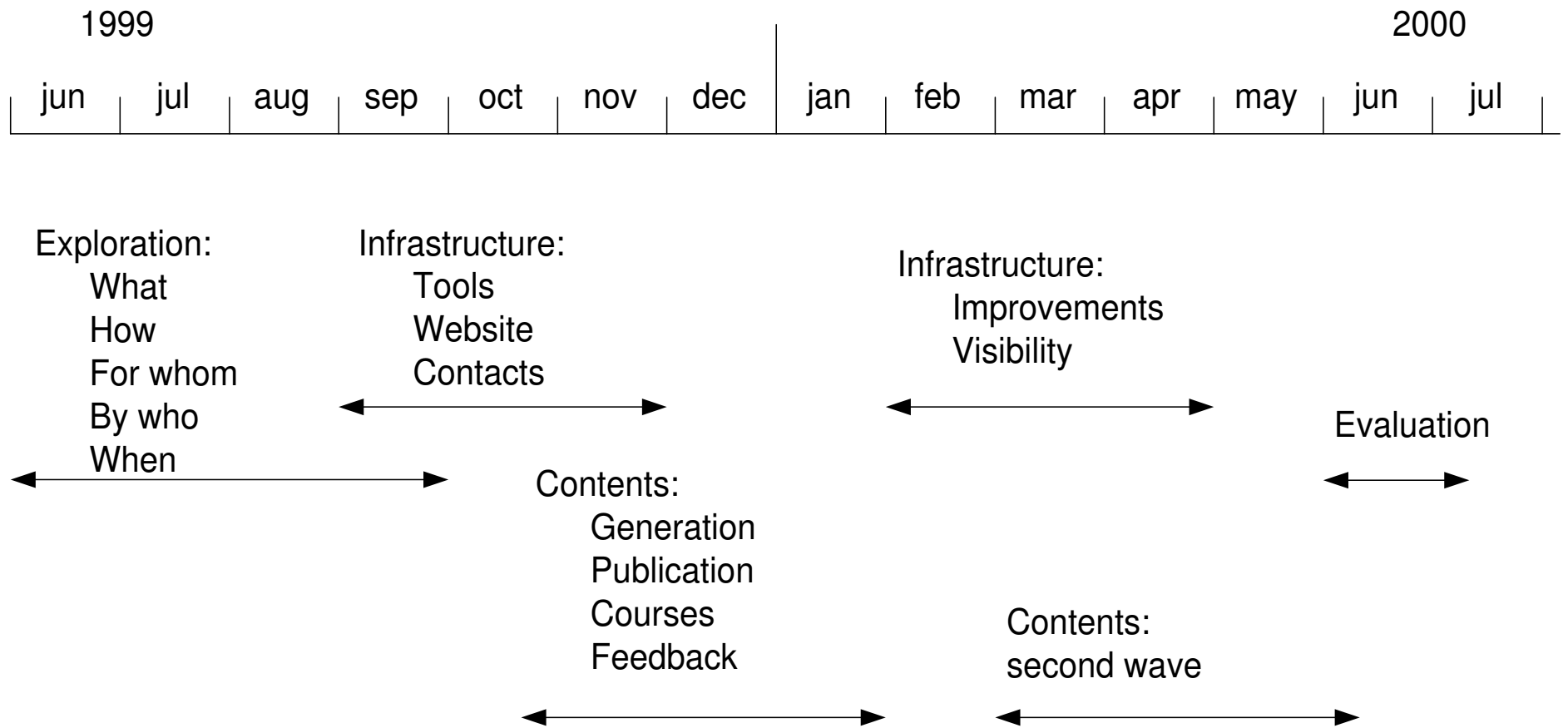
Positioning Books



Productivity: number of new entries



Concurrent Incremental Approach

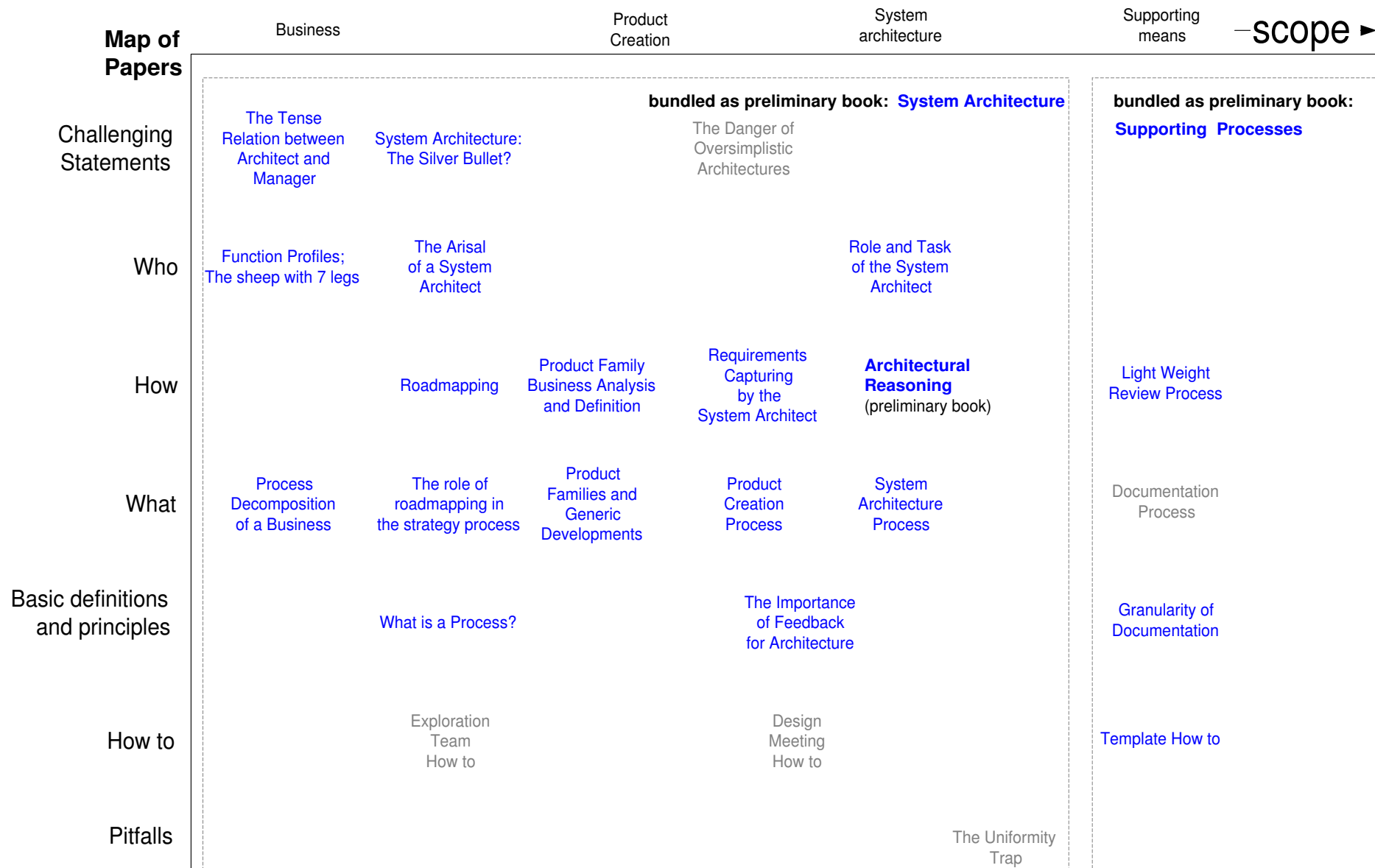


Outlook 2010-2012

	2010	2011	2012
Education	SE master program Reflective Practice yr 2 Master Project Modeling and Analysis Bachelor level	Reflective Practice yr 3 System Design Systems Engineering for other masters	SE PhD program
Research	Master Projects Methodology Research Agenda	staffing research model	PhD Projects Methodology broadening
SE Networks	local: SESG, BUC alumni, strategy&roadmapping, KSEE ESI Sr architecten global: architectingforum.org, SoSE network INCOSE academic forum, symposium, CSER, SEANET		
Tools, website	navigation and search	<i>ideas are welcome!</i>	
Book publication	Systems Architecting in Context	Multi-view Architecting and Modeling	

- 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
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

Status of Courses

Course	Abbreviation	number of courses upto March2008	appr. total participants
System Architecture	SARCH	44	660
Management SARCH	MSARCH	7	72
Embedded Systems Architecting; Stakeholders	ESA	20	300
Requirements Engineering as part of OOTI curriculum	OOTI	7	125
Embedded Systems context	EScontext	3	90
Execution Architecture (with Ton Kostelijik)	EXARCH ASP	11	160
Multi-Objective System Architecting and Design	MOSAD	3	36
System Modeling and Analysis	MA611	2	16

Course Modules

No.	Content	MSARCH	SARCH	ESA
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	+		