

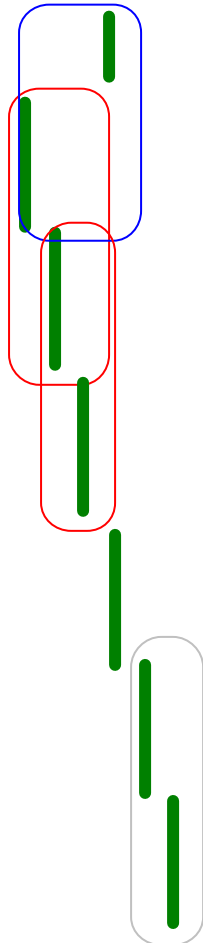
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APPROACH & METHODOLOGY 1

- 02 - Phasing
- 03 - Explanation of the approach
- 04 - Example of phase 1 approach
- 07 - Phase 1 scanning
- 08 - Plan
- 09 - Plan / Data
- 11 - Methods
- 12 - Logistics

PROJECT APPROACH: PHASING

Grouping of phases according to need

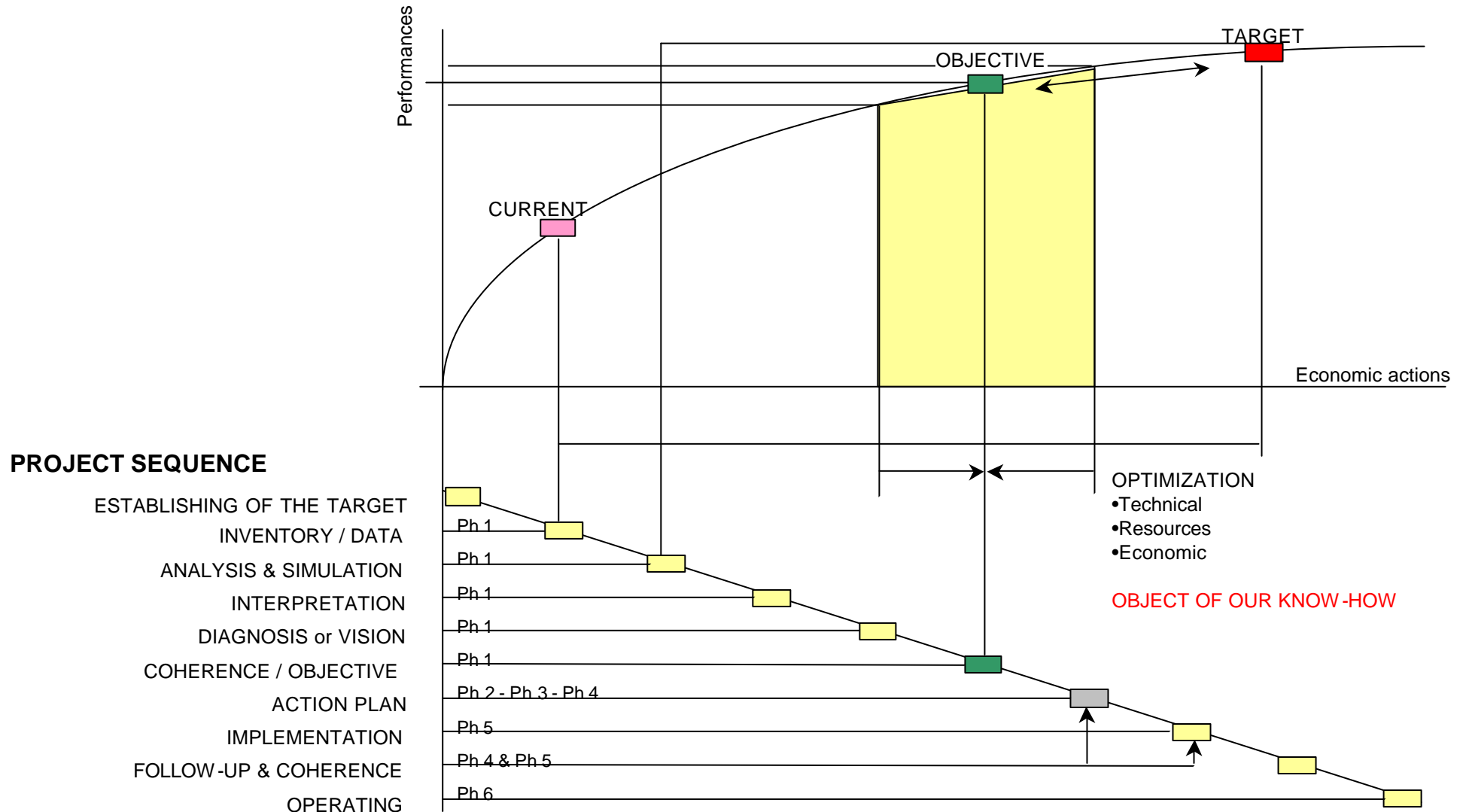


THE PHASING OF AN INDUSTRIAL PROJECT (*)

PHASE 0	COMPANY OBJECTIVE INDUSTRIAL APPROACH Feasibility Internal or external	R & D Master plan or strategy Plants - Lines - Units Equipment Reorganization
PHASE 1	PRE-ENGINEERING	Data + Objectives = Analysis Simulations Development Financial estimates Call for tender TS GPD (General preliminary design)
PHASE 2	PROPOSAL	Supplier documentation Detailed development Editing of supplier documentation Outside order TS Internal specifications DPD (Detailed preliminary design)
PHASE 3	PRODUCTION DOCUMENTATION	Incorporating of the site's constraints Defining of the procedure's inferred tasks. Inferred organization Updating of anticipated layout Internal specifications PP (Detailed preliminary design)
PHASE 4	PRODUCTION	Supplier follow -up S/C engineering follow -up S/C production follow -up Supplier acceptance tests Procedure coherence Solution coherence Master plan coherence
PHASE 5	IMPLEMENTATION	Physical system Assembly Tests Acceptance Procedure coherence Solution coherence Product coherence
PHASE 6	OPERATING	Physical system Human resources Operating plan Procedures JIT- work-in-process Quality plan ... Training & Optimization

*: This breakdown is normative and excludes any assumptions about needs.

PROJECT APPROACH: THE TARGET



PROJECT APPROACH: PHASING

THE METHODOLOGIES APPLIED TO THE PHASES ARE DEVELOPMENTS SPECIFIC TO EACH PROJECT.

THE DESCRIPTION OF THESE PHASES REQUIRES A PRESENTATION THAT IS ADAPTED TO THE FIELD OF APPLICATION, THE COMPANY'S ORGANIZATION AND THE PLANT CONTACT PEOPLE:

- GENERAL MANAGEMENT
- HUMAN RESOURCE DEPARTMENT
- SALES DEPARTMENT
- INDUSTRIAL DEPARTMENT
- ENGINEERING DEPARTMENT
- PRODUCTION (or Sector Production) DEPARTMENT
- DEVELOPMENT - METHODS - INDUSTRIAL ENGINEERING - R & D DEPARTMENT
- INTERNAL LOGISTICS (Infrastructures & resources)
- PURCHASING DEPARTMENT
- QUALITY DEPARTMENT
- MAINTENANCE DEPARTMENT
- TRAINING DEPARTMENT
-

SEE THE DOCUMENTATION GIVING PRESENTATION EXAMPLES.

A SPECIFIC PRESENTATION MAY BE CREATED DEPENDING ON THE PROJECTS' OBJECTIVES AND DEGREE OF URGENCY.

THE FOLLOWING ILLUSTRATES THE DESIGN APPROACH (PHASE 1 EXAMPLE)

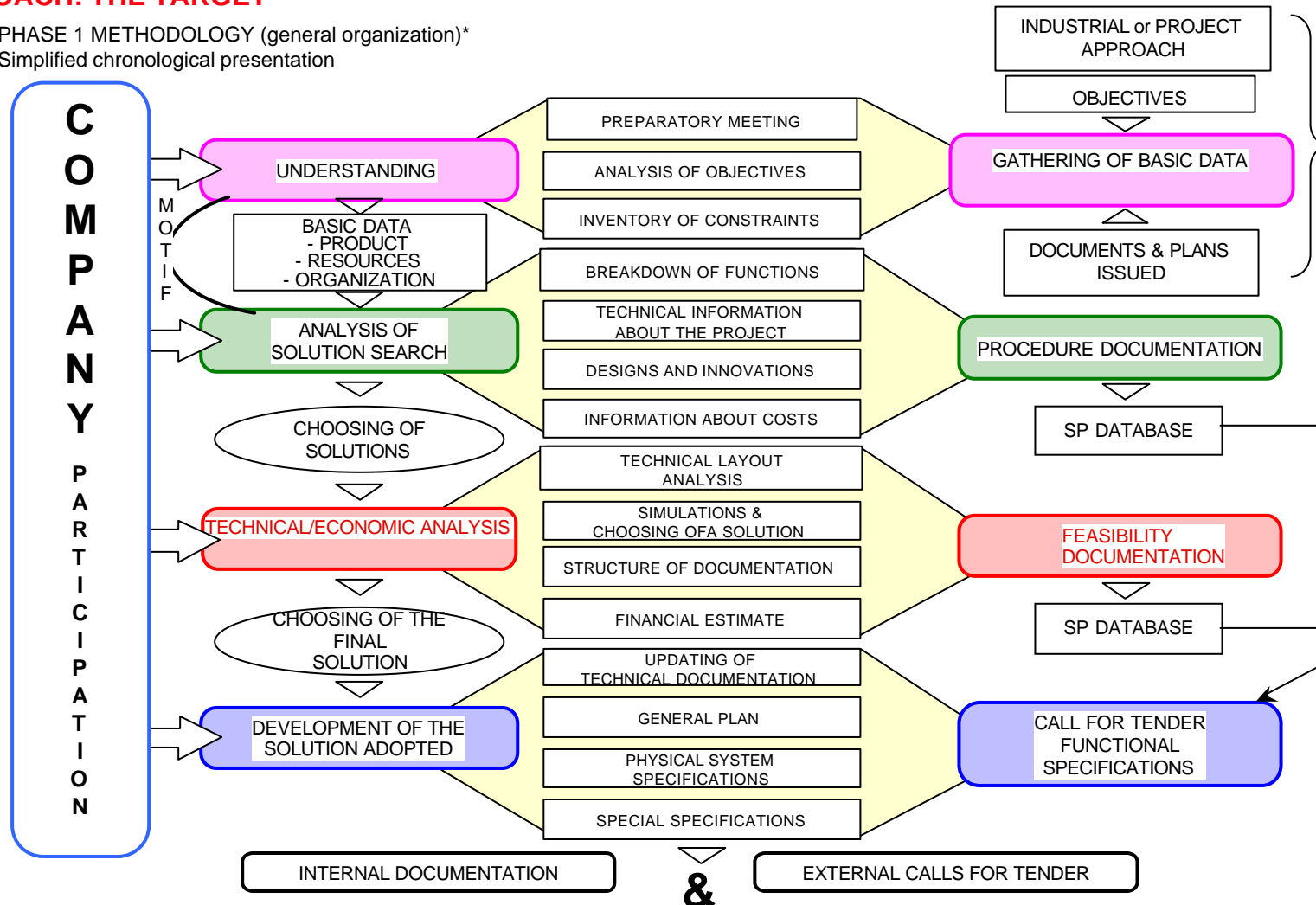
This approach is given by way of example and excludes any assumptions about needs.

The following 3 pages present the analysis and design method for phase 1 (preliminary design)

- ANTICIPATED SEQUENCE OF THE PRELIMINARY DESIGN PHASE. Translation into
- DATABASE ORGANIZATION MATRIX (A) - PRELIMINARY DESIGN PHASE
- FUNCTIONAL MATRIX (B) OF A PHYSICAL SYSTEM - PRELIMINARY DESIGN PHASE
- INTER-MATRIX SCANNING FOR THE ANALYSIS PHASE. DESIGN PHASE DATABASE

PROJECT APPROACH: THE TARGET

PHASE 1 METHODOLOGY (general organization)*
 Simplified chronological presentation

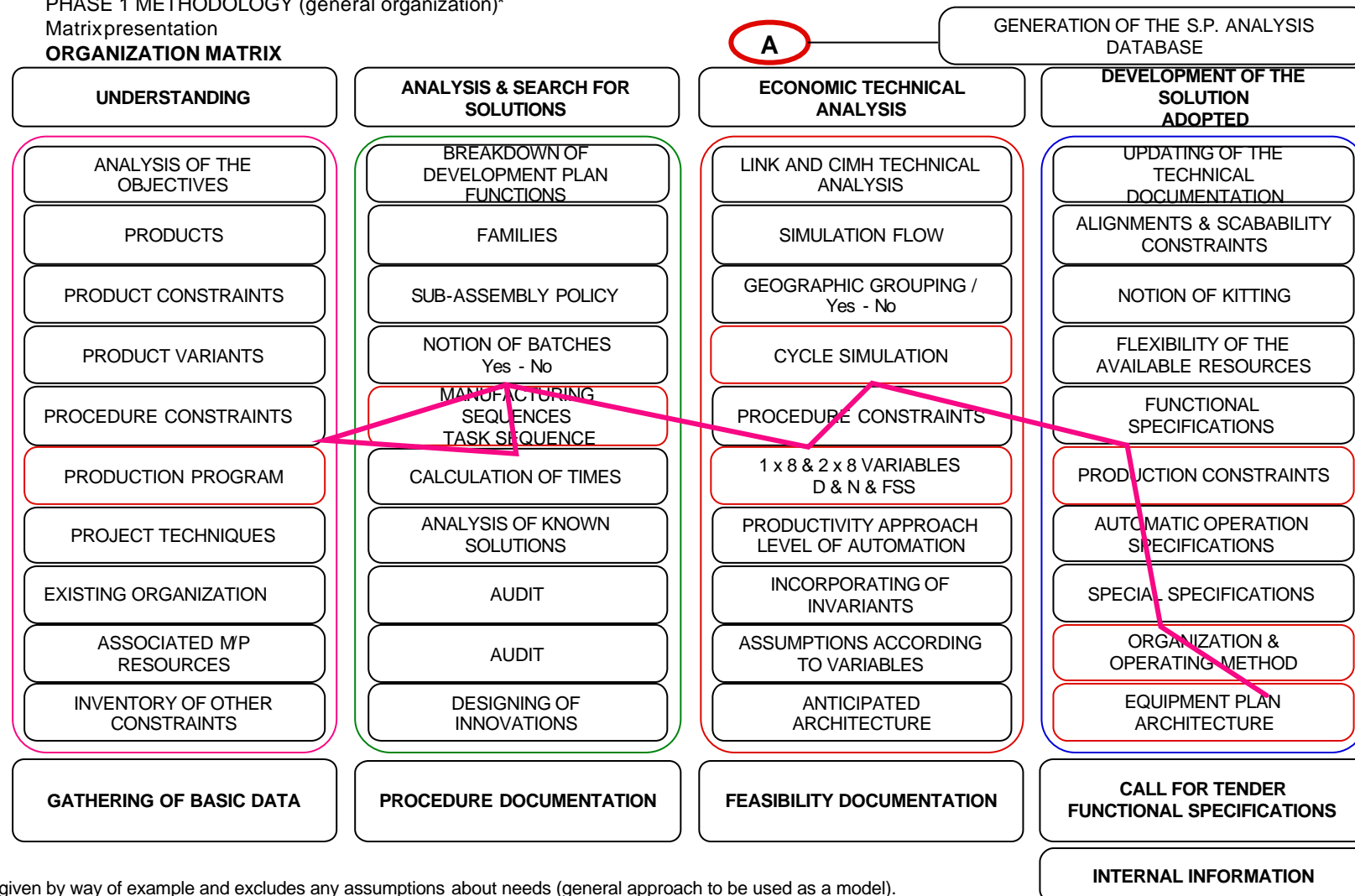


(* This approach is given by way of example and excludes any assumptions about needs (general approach to be used as a model).

& PHASE 2 METHODOLOGY

PROJECT APPROACH: PHASING

PHASE 1 METHODOLOGY (general organization)*
 Matrix presentation
ORGANIZATION MATRIX



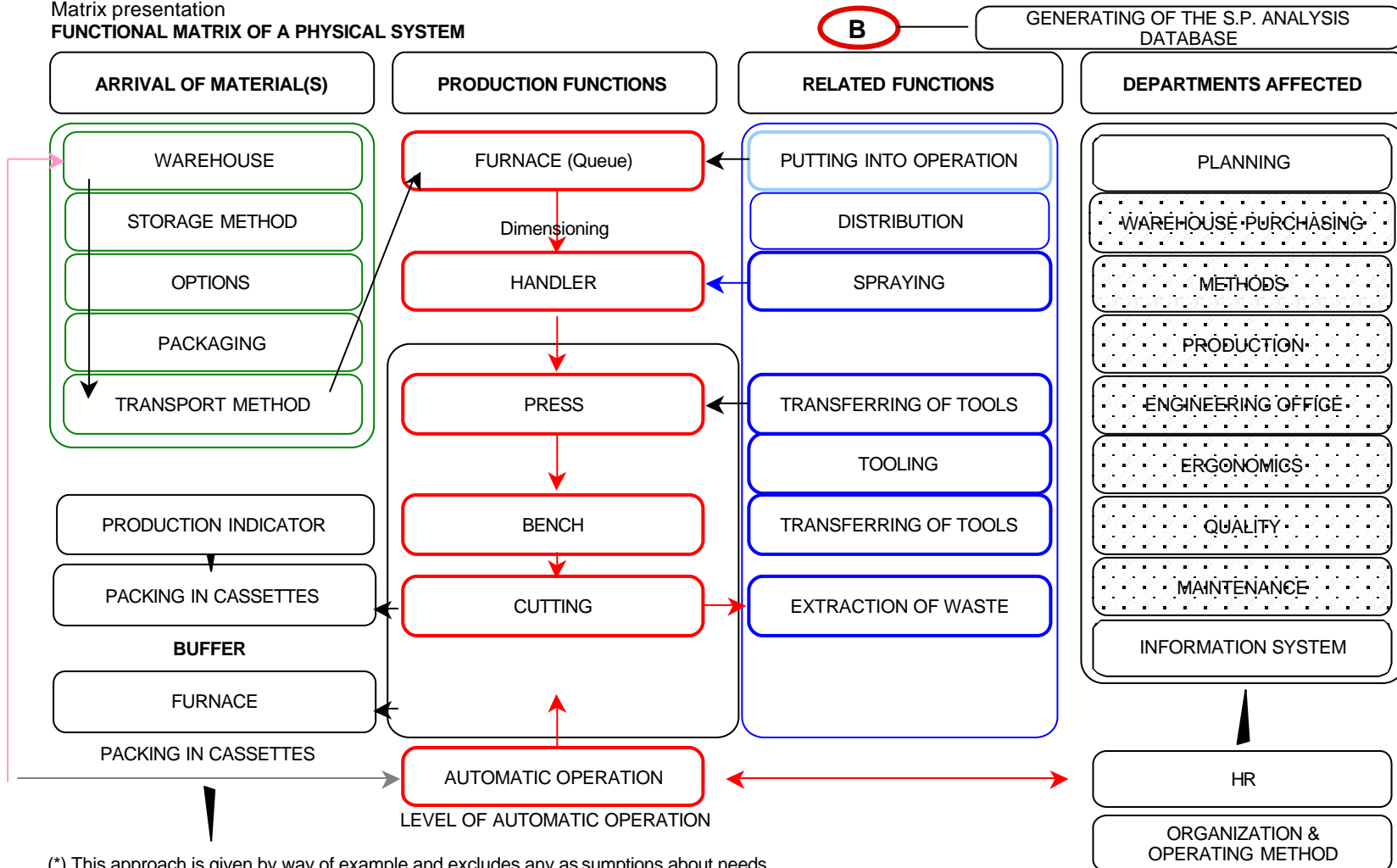
(*) This approach is given by way of example and excludes any assumptions about needs (general approach to be used as a model).

PROJECT APPROACH: PHASING

PHASE 1 METHODOLOGY (general organization)*

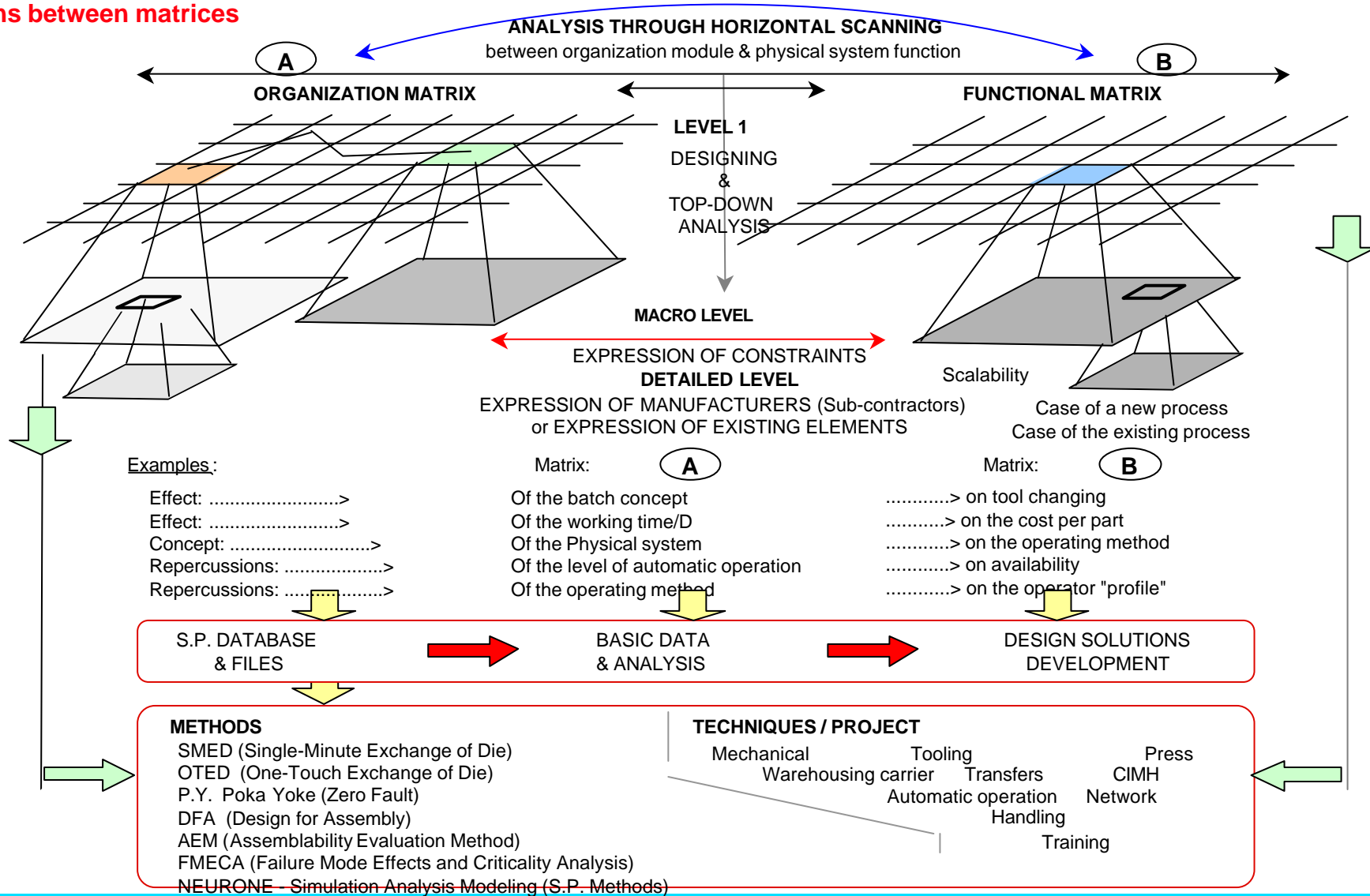
Matrix presentation

FUNCTIONAL MATRIX OF A PHYSICAL SYSTEM



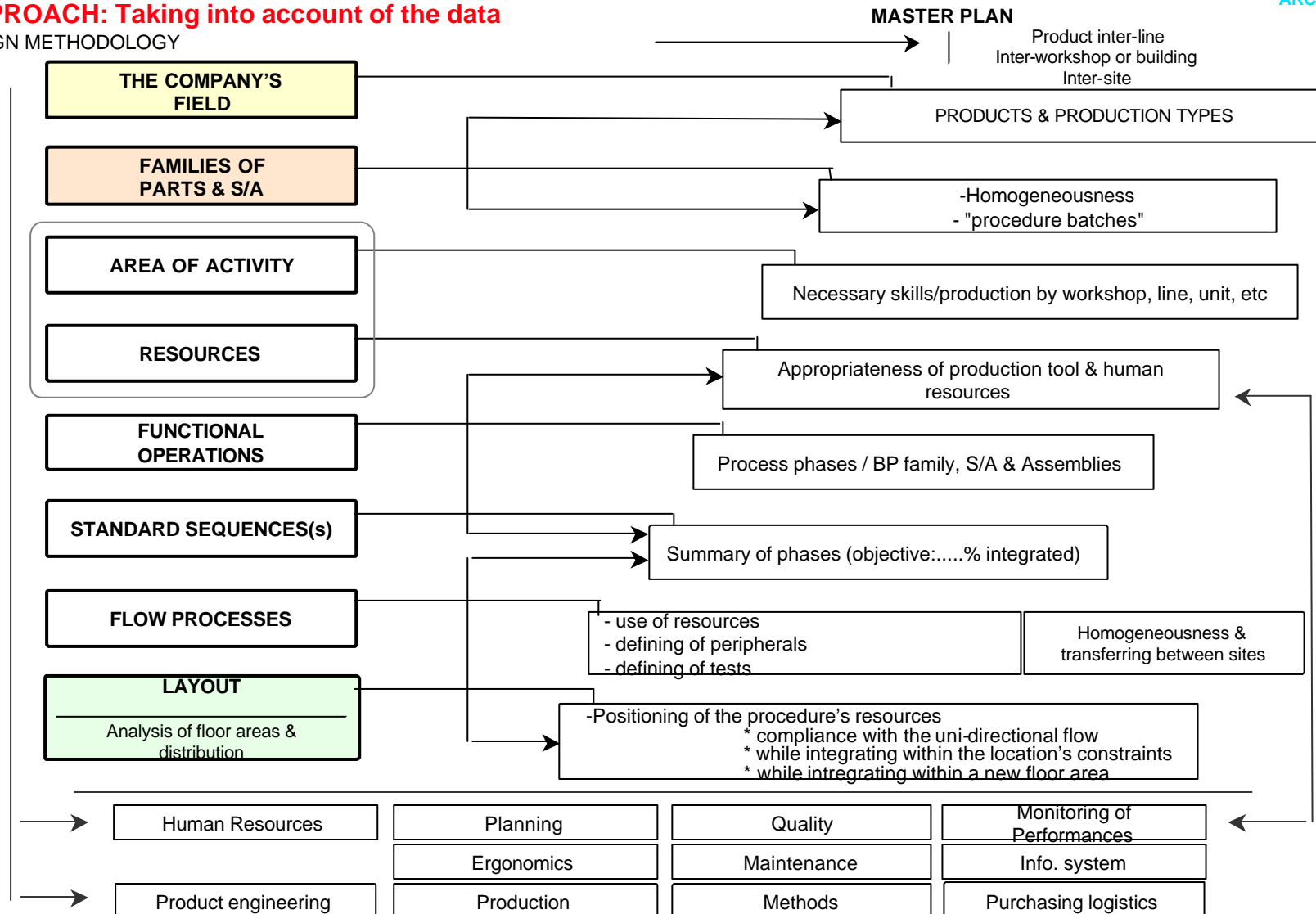
PHASE 1 METHODOLOGY (general organization) *
Relations between matrices

EXAMPLES OF PROJECTS ARCHITECTURES



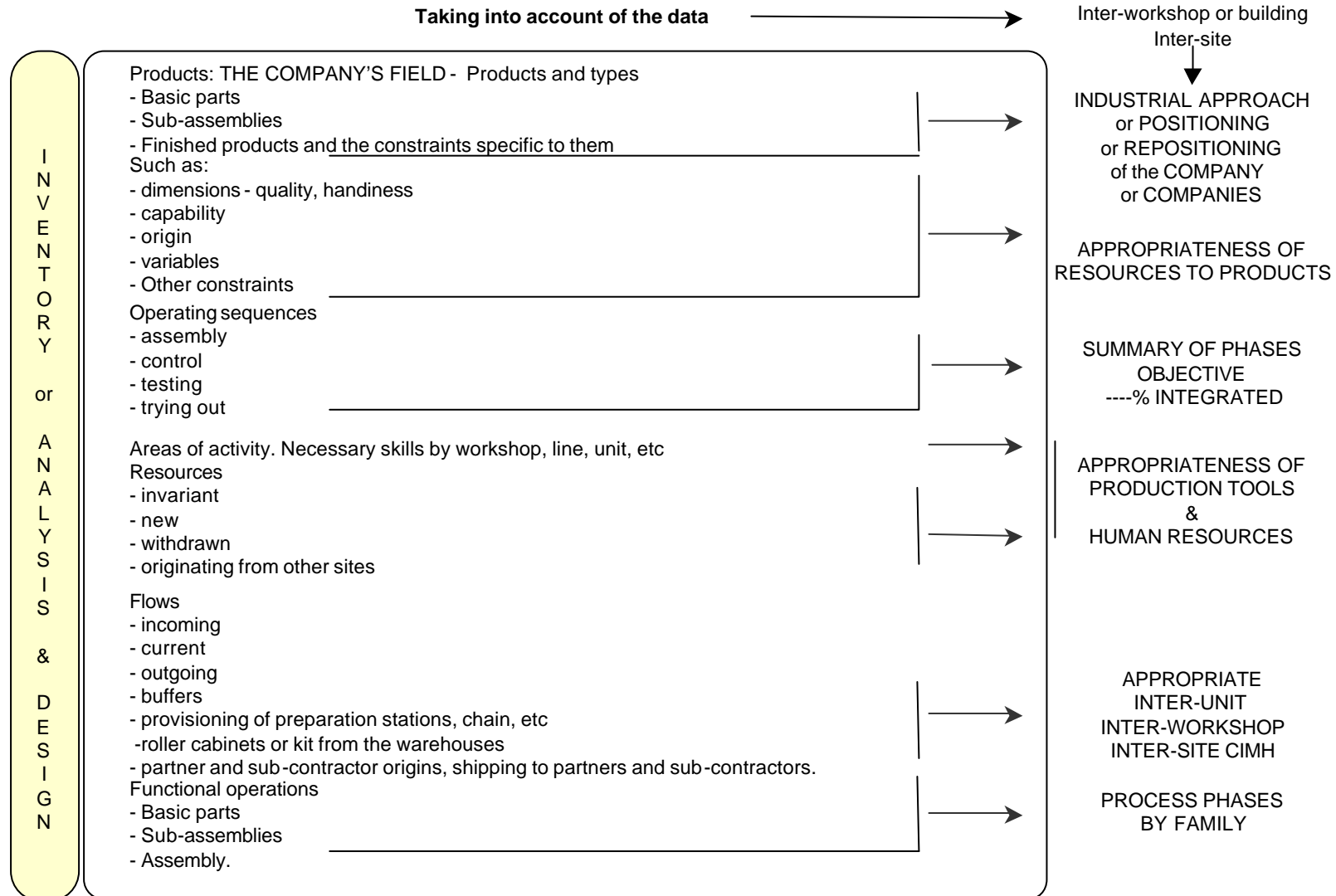
PROJECT APPROACH: Taking into account of the data

ANALYSIS & DESIGN METHODOLOGY



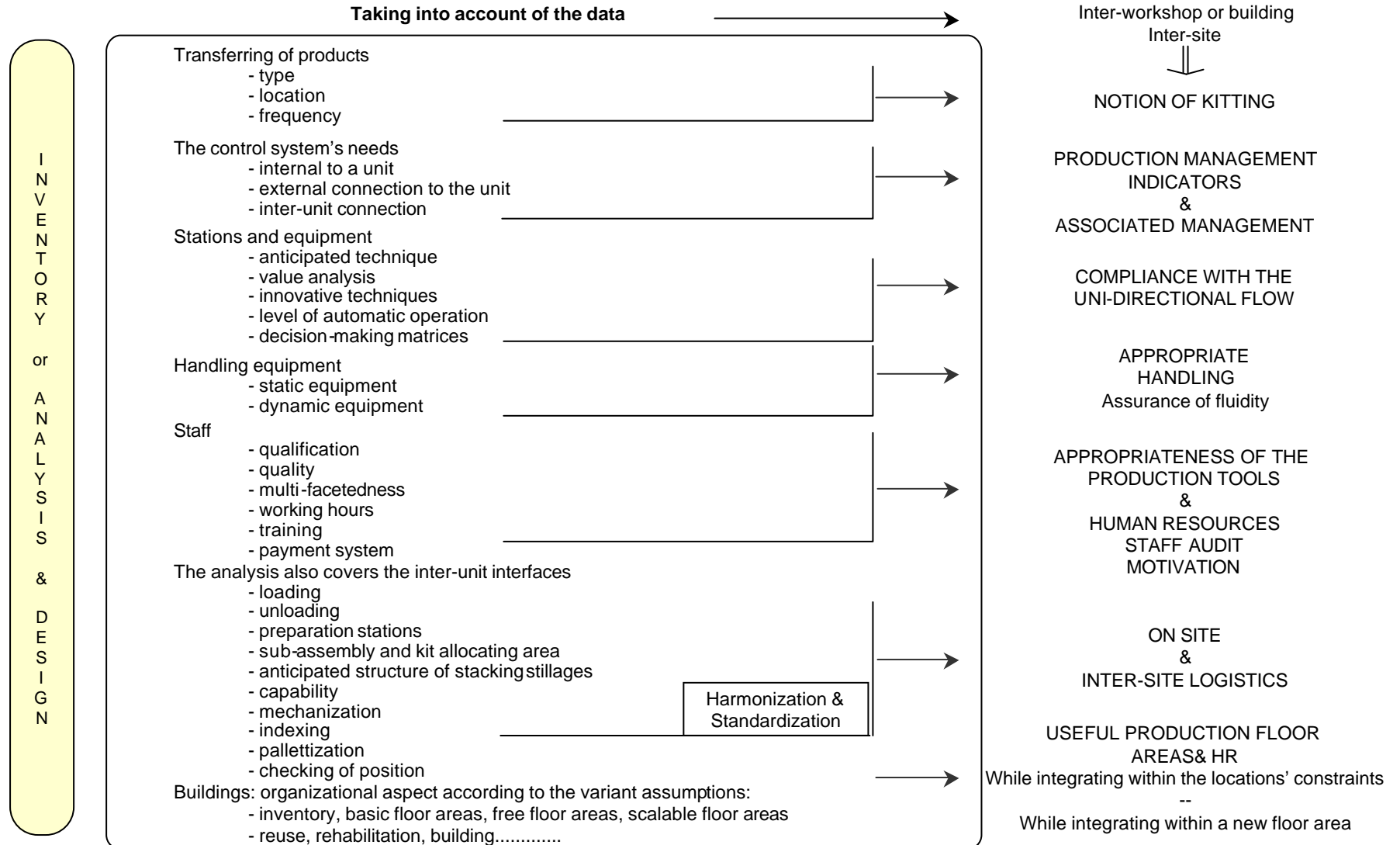
EXAMPLES OF PROJECTS ARCHITECTURES

PROJECT APPROACH: ANALYSIS & DESIGN METHODOLOGY

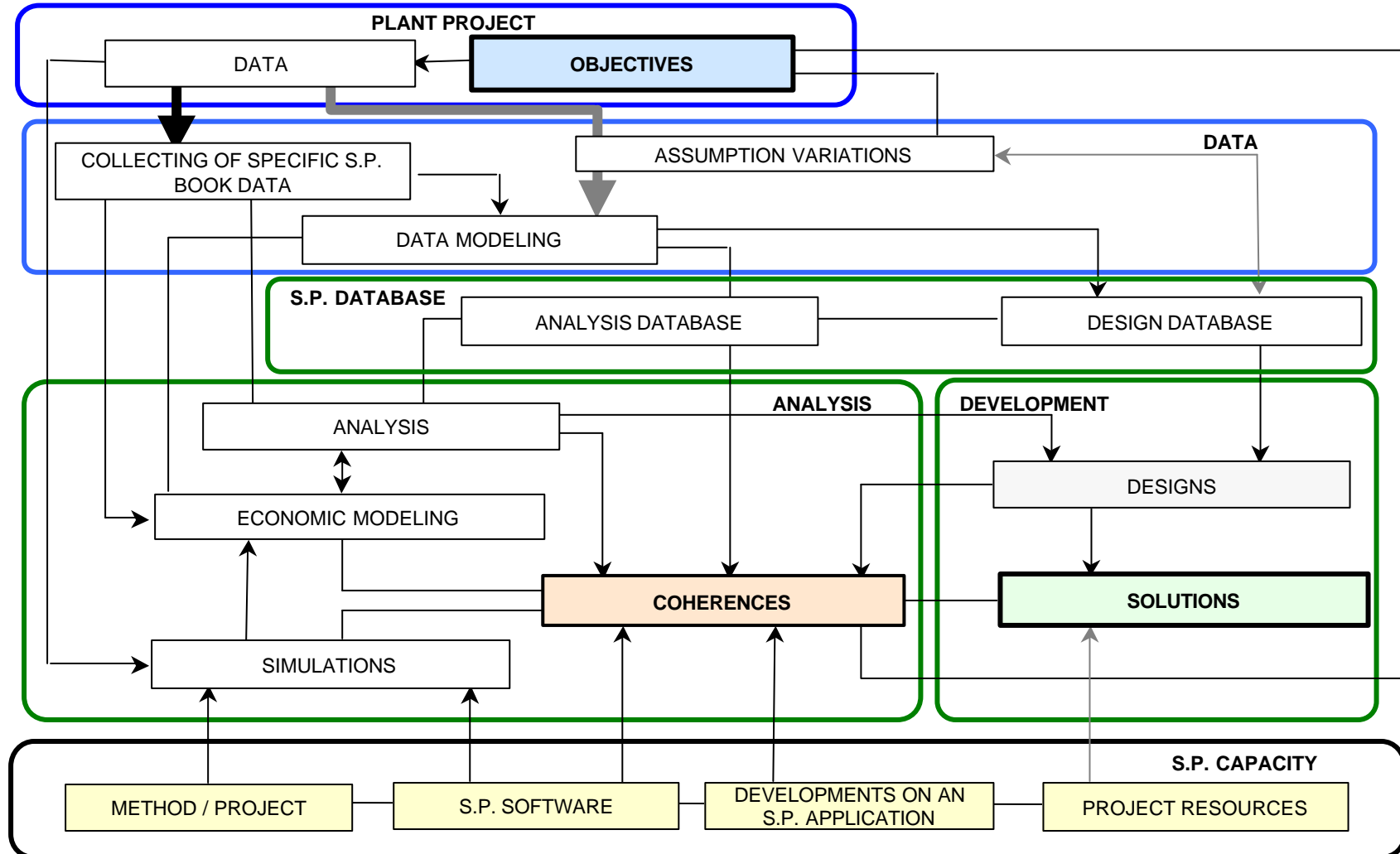


PROJECT APPROACH: ANALYSIS & DESIGN METHODOLOGY

EXAMPLES OF PROJECTS ARCHITECTURES



Document to be explained during our visit.
 Dealing with a project requires an applied and specific approach according to need.



PROJECT LOGISTICS

In the interests of close cooperation with the companies' staff, the S.P. team collects data and performs research on site.
 The company SECTEUR PRODUCTIQUE provides, for the project concerned:

- human resources
- computer equipment
- appropriate software and simulators
- specialized documentation
- applied and personalized methods.

Depending on the project.

STANDARD SERVICE CONFIGURATION

