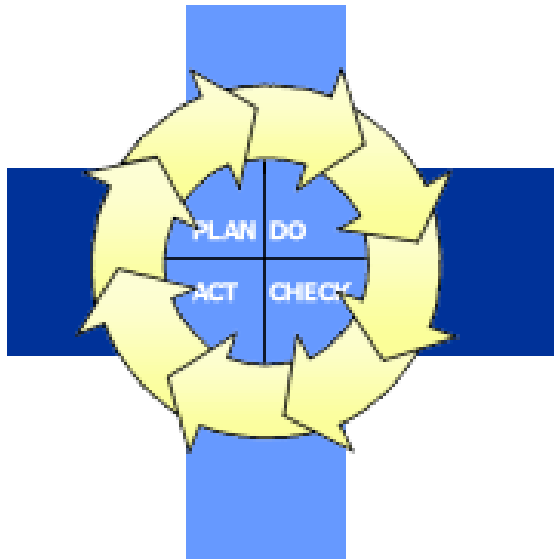
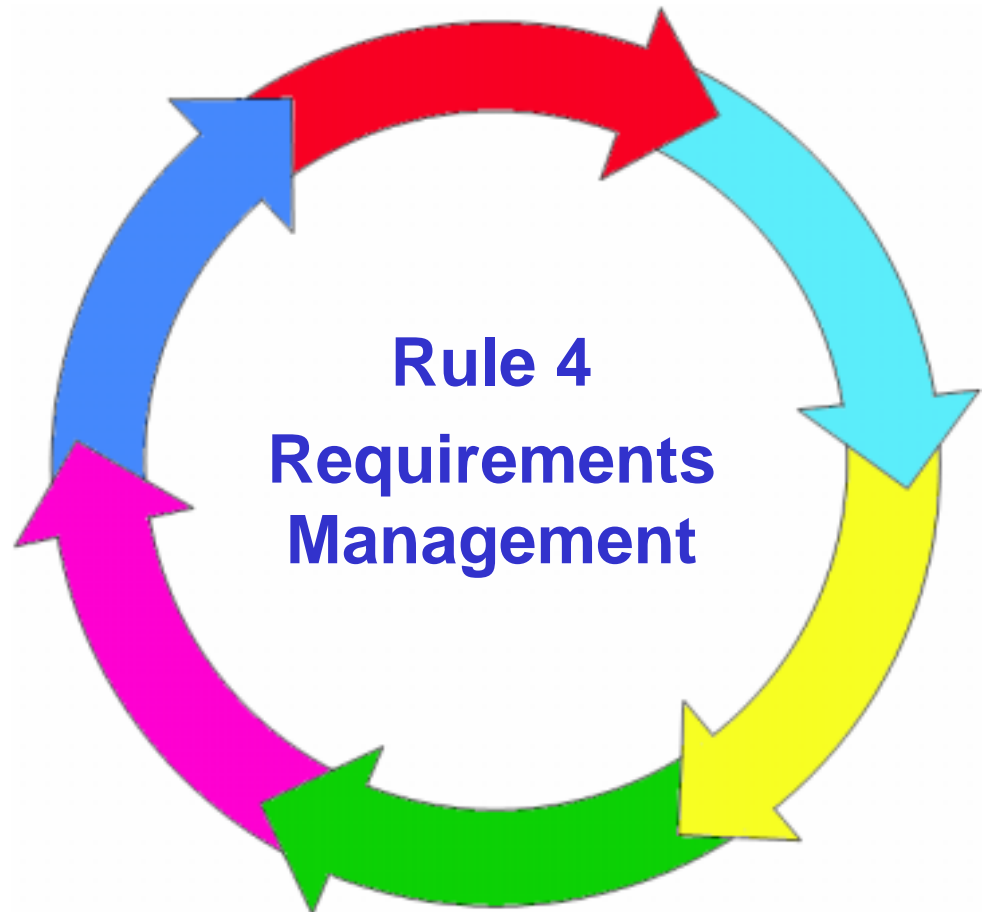


AVL Software Process Training



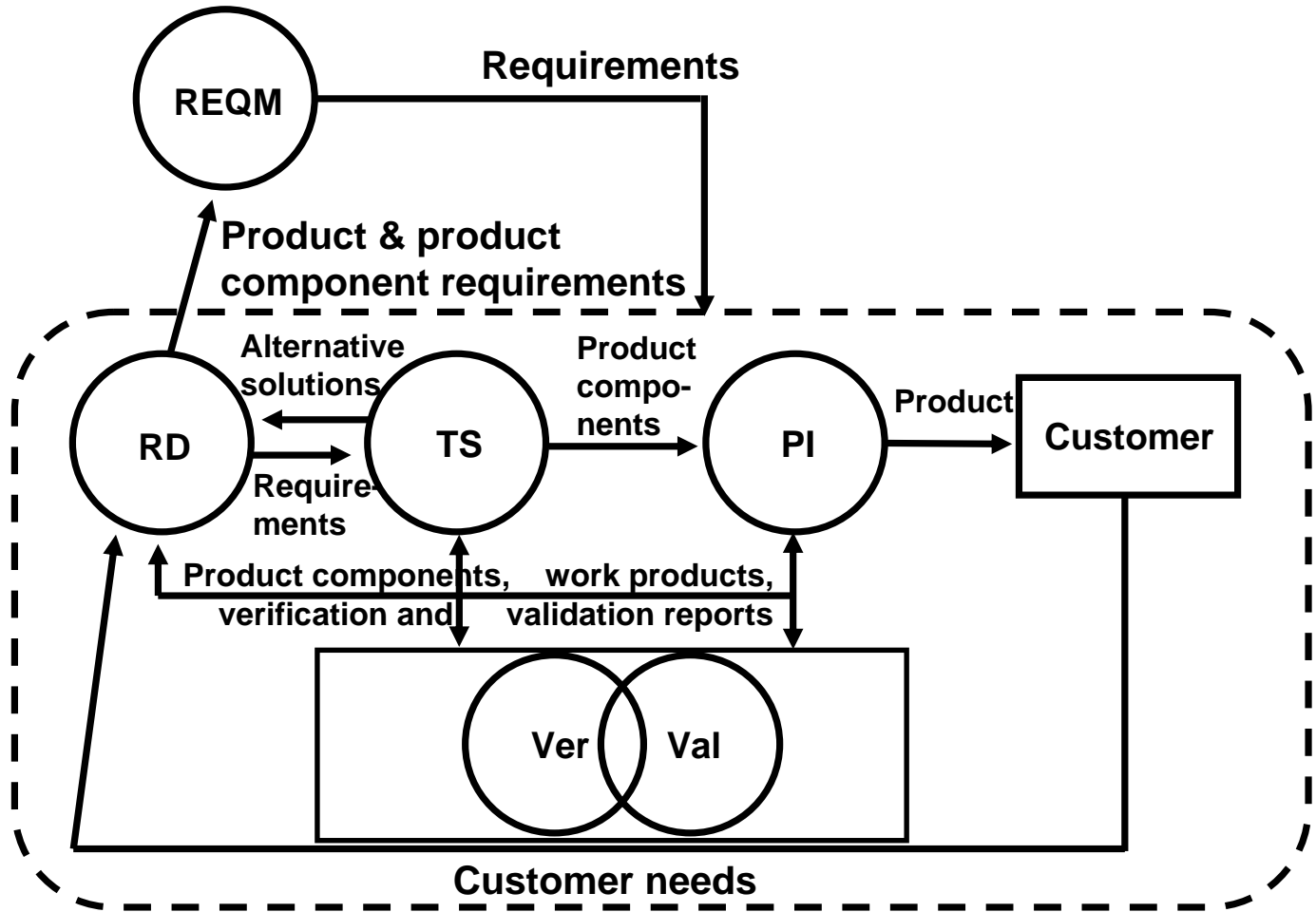
Dr. Ernest Wallmüller
Wolfgang Höh

Qualität & Informatik
www.itq.ch



REQM Process Context

- OPF
- OPD
- MA
- REQM**
- PP
- RD
- PMC
- CM
- PPQA
- SAM
- OT
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- RSKM
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■ Policy

According to the Standard Software Development Process the Requirements Management has to establish a common understanding between the customer and the software project. This agreement with the customer is the basis for planning and managing the software project:

- **System requirements that are allocated to software are controlled to establish a baseline for software engineering and management use.**
- **Software plans, products and activities are kept consistent with the System requirements allocated to software.**
- **Evaluate the impacts of requirement changes to a development project.**

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■ Scope

All SW producing units in AVL SBU MES.

Affected projects are:

- Standard SW development projects (main releases as well as sub-releases)
- Customer-specific SW development
- Service Packs

■ Purpose

The purpose of Requirements Management is to manage the requirements of the project's products and product components and to identify inconsistencies between those requirements and the project's plans and work products.

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- **Method:** *Plenum*
- **Timing:** *20'*
- **Form:** *Brainstorming and discussion*
- **Documents:** *none*
- **Deliverable:** *Documentation on flipchart (trainer)*

- **Questions:**

- I. How do we know that the process is performing well?*
- II. Who of you has experiences with this process?
Which one?*
- III. What are the most relevant
work products?*



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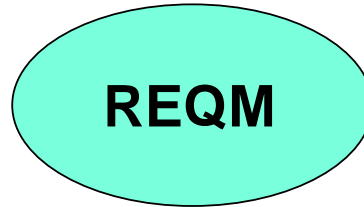
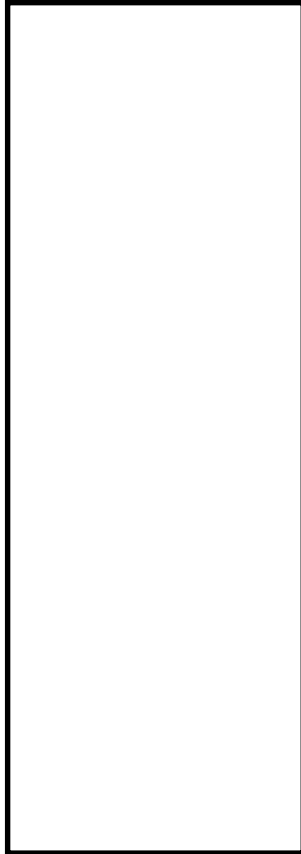
- **Method:** *Individual*
- **Timing:** *10'*
- **Form:** *Individual elaboration*
- **Documents:** *Process Rule 4; form: next foil*
- **Deliverable:** *Filled in form*

Question:

- I. Based on your experience, the prior discussion and the REQM process definition list the involved roles, the performed activities, and the produced work products.*

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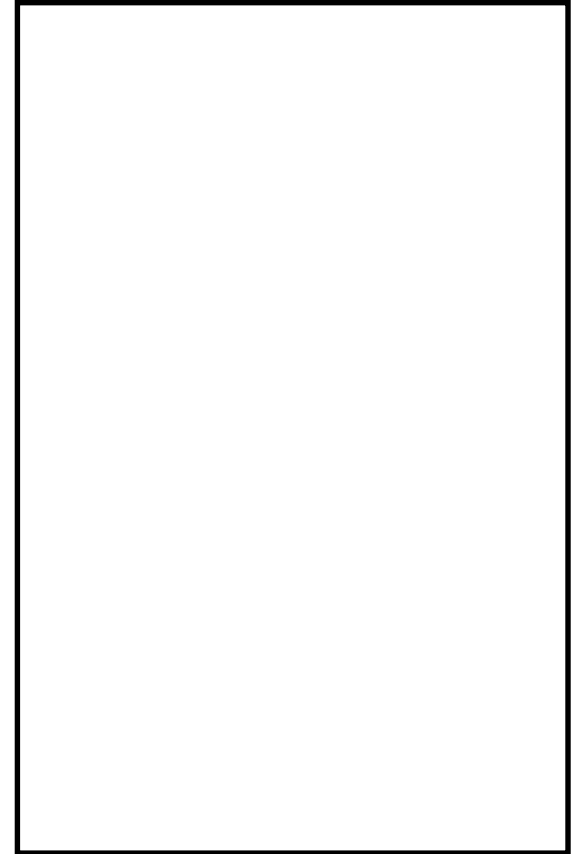
Roles



Activities



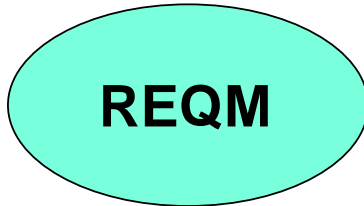
Work Products



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Roles

- PL-DP
- GPM
- CCB
- Requirements Provider / Stakeholder
- RM
- WPL/SPL



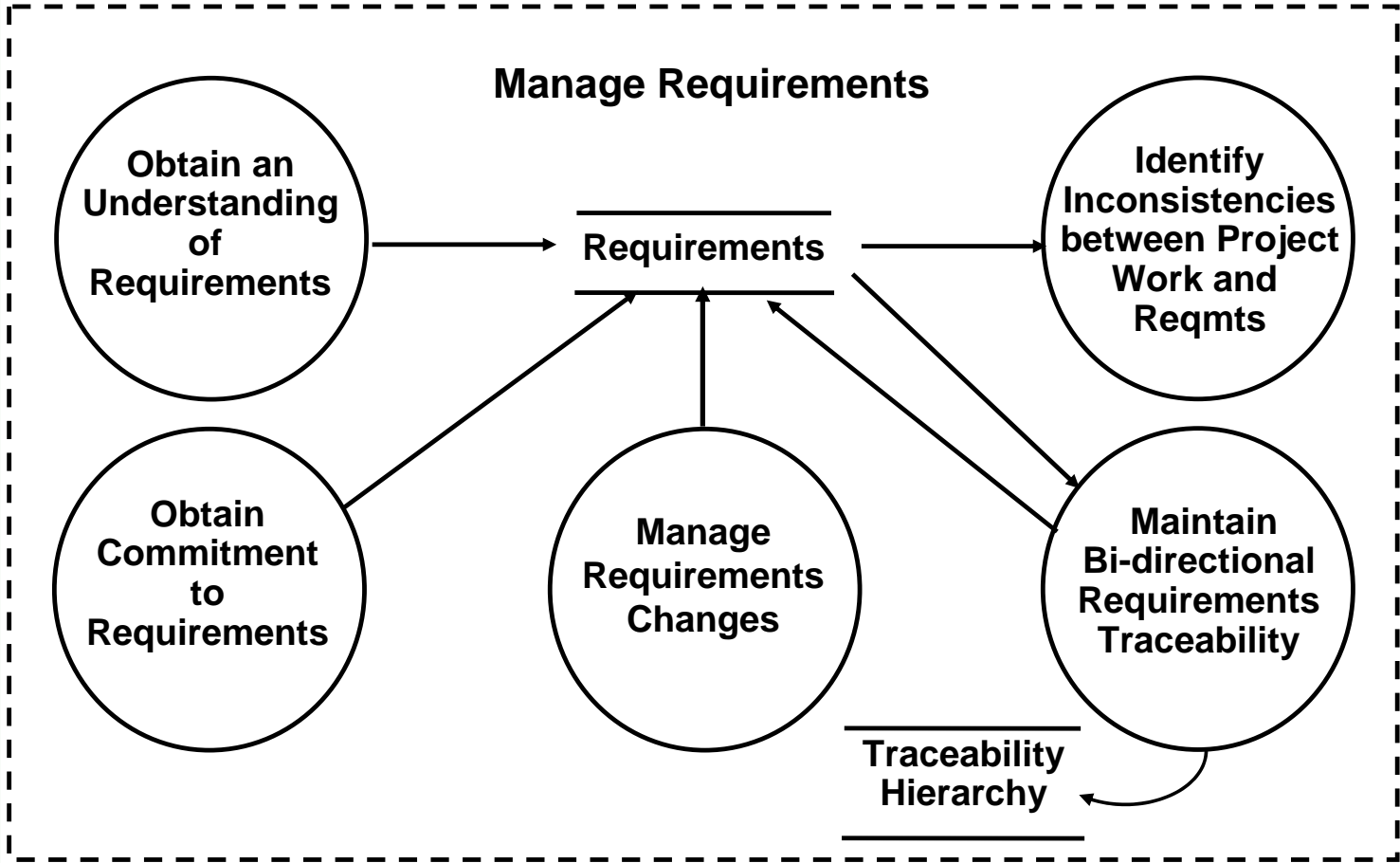
Activities

- Obtain an understanding of requirements
- Obtain commitment to requirements
- Manage requirements changes
- Maintain bi-directional traceability of requirements
- Identify inconsistencies between project work and requirements

Work Products

- CRS
- URS
- SRS
- URS review report
- PIP DR3 Report
- CRs assigned/postponed/rejected (CR-database)
- Integration review report

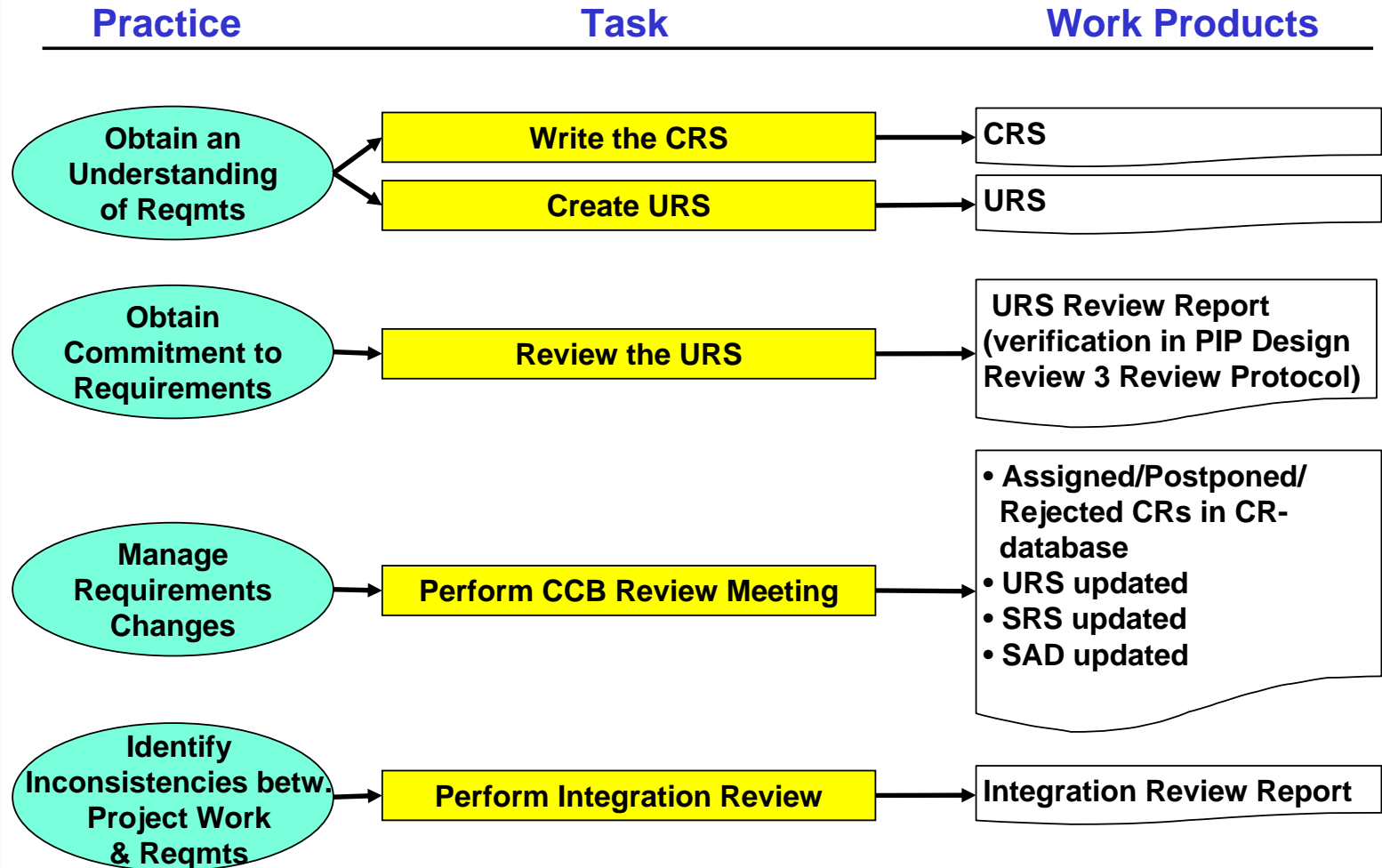
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REQM Process Tasks



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- **Method:** *Group work*
- **Timing:** *20' group work, 15' presentation & discussion (comparative discussion of group results)*
- **Form:** *Group elaboration*
- **Documents:** *Process Rule 4: REQM*
- **Deliverable:** *Task description on flipchart*

- **Question:**
 - I. *Describe the selected task*
REQM_T04 'Perform CCB Review Meeting'
using the presented description technique (→ next foil).

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Input

ID	Task Name
Description	
Roles	
Tools	
Method/Technique	

Output

Task Details 'Perform CCB Review Meeting'

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Input

- Change requests
- Invitation
- URS
- SRS
- SAD

REQM_T04	Perform CCB Review Meeting
Description	
<ul style="list-style-type: none"> • Review Change Requests • Decide about acceptance (accept and assign, postpone, or reject) of the Change Requests 	
Roles	
PL-DP CCB	Resp. for Task REQM_T04 Review Team
Tools	
ClearQuest	
Method/Technique	
Review Techniques	

Output

- Assigned, rejected or postponed Change Requests
- Minutes
- URS updated
- SRS updates
- SAD updated

Rule 4: Work Products and Templates

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WP ID	Type	Description	Task ID	Resp.	Link to Template
REQM_W01	M	CRS	REQM_T01	GPM	Template_REQM_CRS
REQM_W02	M	URS	REQM_T02	GPM/RM	Template_REQM_URS or SODA ReqPro Template
REQM_W03	M	SRS	REQM_T04	PL-DP	Template_TS_SRS or SODA ReqPro Template
REQM_W04	M	URS Review Report	REQM_T03	PL-DP	Template_VERVAL_Walkthrough and Review Protocol*.doc or Template_REQM_REVREP_URS
REQM_W05	M	PIP DR3 Report	REQM_T03	GPM	Template_PPQA_FB-MES-004-003-SQ_Pdr3
REQM_W06	M	Assigned/Postponed/ Rejected CRs in CR-database (e.g. ClearQuest)	REQM_T04	RM	Template_REQM_CRS
REQM_W07	M	Integration Review Report	REQM_T05	RM	Template_PI_Integration_Review_Report

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- **Method:** *Small groups*
- **Timing:** *10' group work, 10' discussion in plenum*
- **Form:** *Group elaboration*
- **Documents:** *none*
- **Deliverable:** *Group notes*

- **Question:**

Each project has typical characteristics. These characteristics steer the process of performing the project.

- I. What do you need to plan for when starting a project?*

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GP2.2 PLAN THE PROCESS

Establish and maintain the plan for performing the process.

Purpose:

Determine what is needed to perform the process and to achieve the established objectives, to prepare a plan for performing the process, to prepare a process description, and to get agreement on the plan from relevant stakeholders.

Practice:

- Derive requirements for the process's specified work products and for performing the work
- Derive the objectives for the process (project's specific situation, cost, quality, schedule)
- The plan for performing the process typically includes the following:

- Process description
- Standards for work products and services
- Requirements the work products, services
- Specific objectives for the performance
- Dependencies (activities, WP's, services)
- Resources needed
- Assignment of responsibility and authority

- Training needed
- Work products to be placed under CM
- Measurement requirements
- Involvement of identified stakeholders
- Activities for monitoring and controlling
- Objective evaluation activities
- Management review activities

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*What was important for
you concerning this
Process Rule?*



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