

TISYE1 – Lecture 1.1

Introduction to Case Work in Systems Engineering

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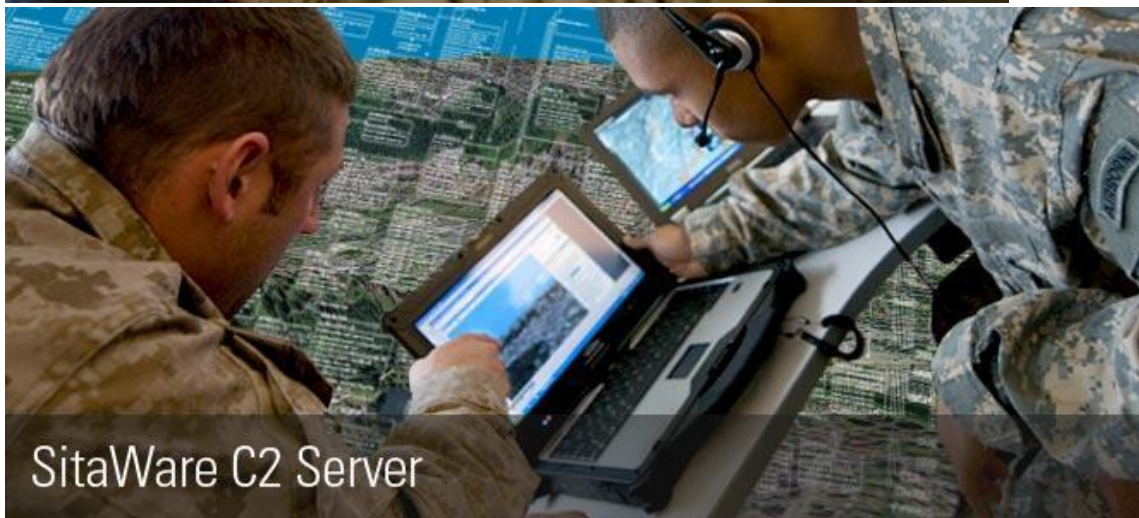




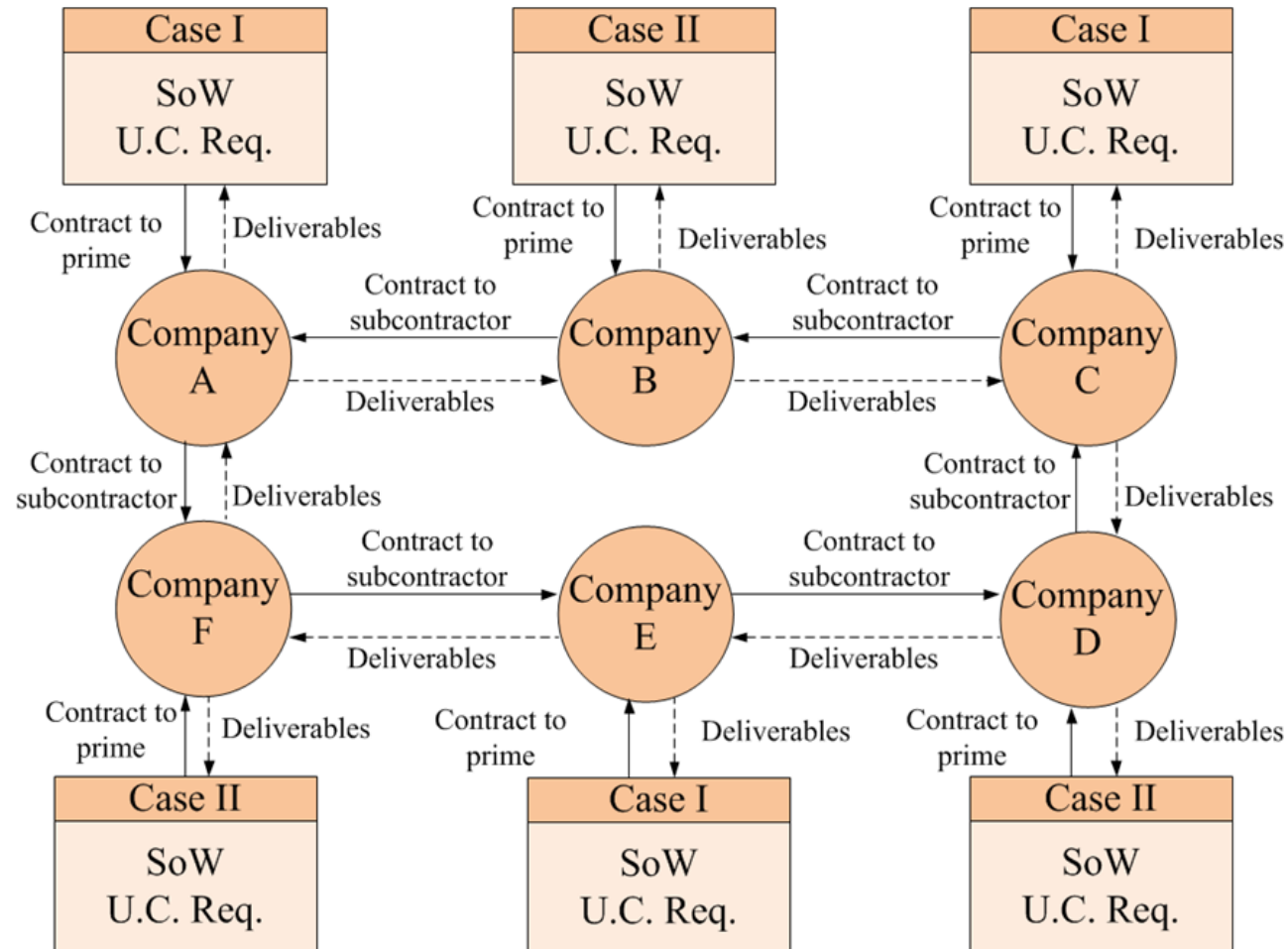
Terma Self-Protection for Royal Air Force Tornado GR4

Systematic Case

SYSTEMATIC



Case Workflow



Contractors and Subcontractors

- › **Company A**

- › Prime contractor to Terma case
- › Subcontractor to Company B

- › **Company B**

- › Prime contractor to Systematic case
- › Subcontractor to Company C

- › **Company C**

- › Prime contractor to Terma case
- › Subcontractor to Company D

- › **Company D**

- › Prime contractor to Systematic case
- › Subcontractor to Company E

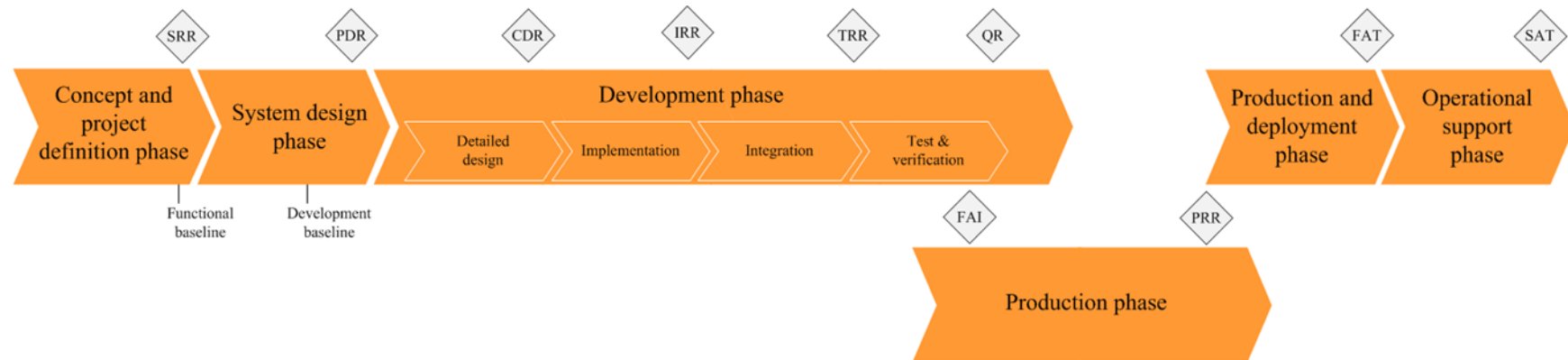
- › **Company E**

- › Prime contractor to Terma case
- › Subcontractor to Company F

- › **Company F**

- › Prime contractor to Systematic case
- › Subcontractor to Company A

Tailored SE Process



Abbreviations

SRR	System Requirement Review
PDR	Preliminary Design Review
CDR	Critical Design Review
IRR	Integration Readiness Review
PRR	Production Readiness Review
FAI	First Article Inspection
TRR	Test Readiness Review
QR	Qualification Review
FAT	Factory Acceptance Test
SAT	Site/Sea Acceptance Test

List of Deliverables

Milestone reviews	Mandatory deliverables	Optional deliverables
SRR	Time plan. SRS (System Requirement Specification).	Concept of operation Project plan List of system objects Verification matrix SEP
PDR (internal)	Preliminary Design Description	Preliminary Interface Control Documents
CDR	DDD (Detailed Design Description).	ICDs (Interface Control Documents)
TRR	STD (System Test Description).	
QR (internal)		Test reports
SAR	Customer presentation. Complete document baseline.	

Prime Contractor Responsibility

The following responsibility apply for the prime contractor's MSR with the customer:

- › All documents for the MSR shall be delivered to the customer no less than 72 hours in advance.
- › The cover letter (email) shall include a document baseline for the delivery.
- › Documents must be delivered in Campusnet.
- › All documents shall be in portable document format (PDF) format and written in English.
- › All documents shall be revision controlled and a project-unique document identification must be clearly visible on the first document page.
- › The MSR shall be conducted at a time agreed with the customer. It is the prime contractor's responsibility that the MSR time is not conflicting with other meetings.

Subcontractor Responsibility

The following responsibility apply for the subcontractor's MSR with the prime-contractor:

- › The MSR shall be conducted outside scheduled class sessions.
- › The requirements for the documentation is the same as for the prime-contractor's MSR with the customer.
- › Minutes of meeting (MoM) from the MSR shall be produced and sent to the customer by the prime contractor no less that 48 hours after the MSR meeting
- › Minutes of meeting shall be in PDF format containing a max. of 1000 words.

SE Groups in Companies A-H

Company A Janne Walsted (jw68266) Xiaohui Ma (201302797) Kim Henriksen (201200493) Martin Valov (201202614) Boris Mihaylov (201202613) Hristina Chakarova (201400136)	Company B Rasmus (201308849) Sam Chieng (201308839) Casper Thule (201302496) Lars Nørgaard Nielsen (201308842) Gorm Sørensen (201308843) Dat Nguyen (201308838)	Company C Flemming Thesbjerg (09008) Rasmus Bækgaard (10893) Lars Anker (201210690) Kasper Nielsen (10731) René Nilsson (10783)	Company G Steffan Lildholdt 201302499 Jeppe Ibsen 201300264 Søren Sandal 201302495 Hassan Sheeta 20011242 Anders Hansen 201308847
Company D Benjamin k. Gudsø, 10693 Jacob H. Hansen, 10424 Christoffer P. Mose, 10439 Simon L. Madsen, 10874 Alexander R. Knudsen, 20107083 Camilla S. Munk, 10737	Company E Ali Hassan Abed Al-Aidi: 201202615 Jakob Kristian Klug Kastrupsen: 201300127 Tai Loc Nguyen: 201310422 Nicolaj Quottrup: 10754 Kenneth F. Fisker: 201201717	Company F Ivan Grujic 10454 Lasse Brøsted Pedersen 10769 Lars Juhl Lunde 10423 Lars Nielsen 10765 Fatemeh Sadat Kiaeerad 201210732	Company H Kristian Mogensen, 10826 Christian Mark Vraa, 201200715 Jan Birch Jensen, 10475 Bjarke Rahbek, 19984814 Marian Vrtik, 201400121 Mihai Cristian Rotariu 201400124

Get Going Soon!

Congratulations:

You have won the contract!

The customer needs the product a.s.a.p.!