

Speaker: Miguel Carruozzo





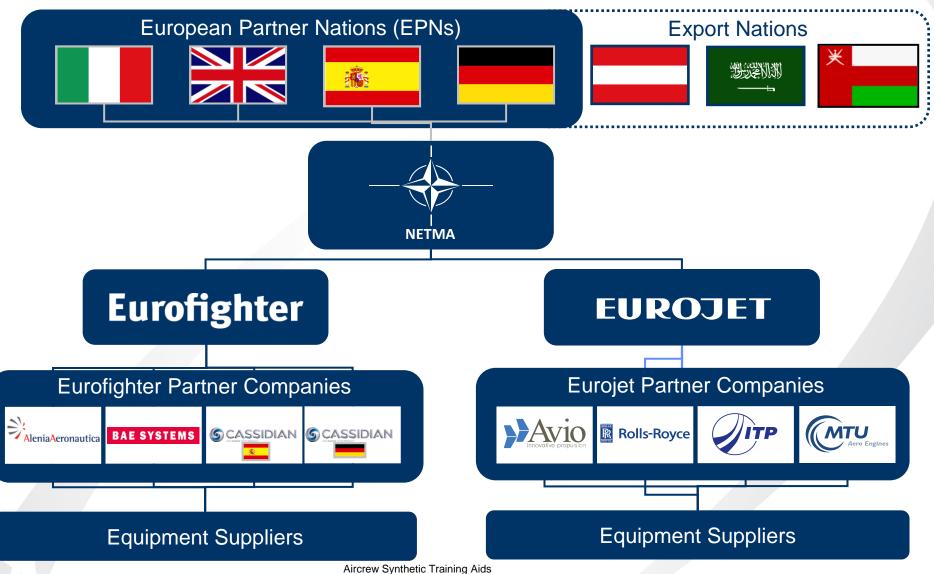
Il Project Management nel Programma "Aircrew Synthetic Training Aids" (EF Training Simulator)

Contents



- Multi National Programme Organization
- A/C programme main Deliverables
- Mission Support Items
- Aircrew Synthetic Training Aids (ASTA)
- Structure and Organization
- Route to Contract
- Programme & Project Management Process
- Product End to End process
- Continuing Integration and Qualification
- Customer Acceptance and Deliveries
- Monitoring and control

Eurofighter Typhoon

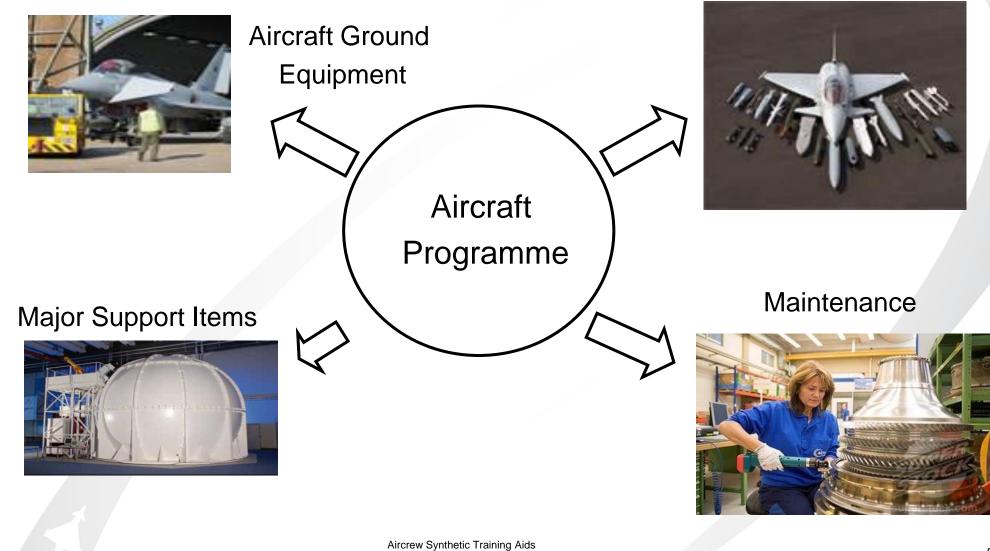


Δ



Main Deliverables

Weapon System





Major Support Items

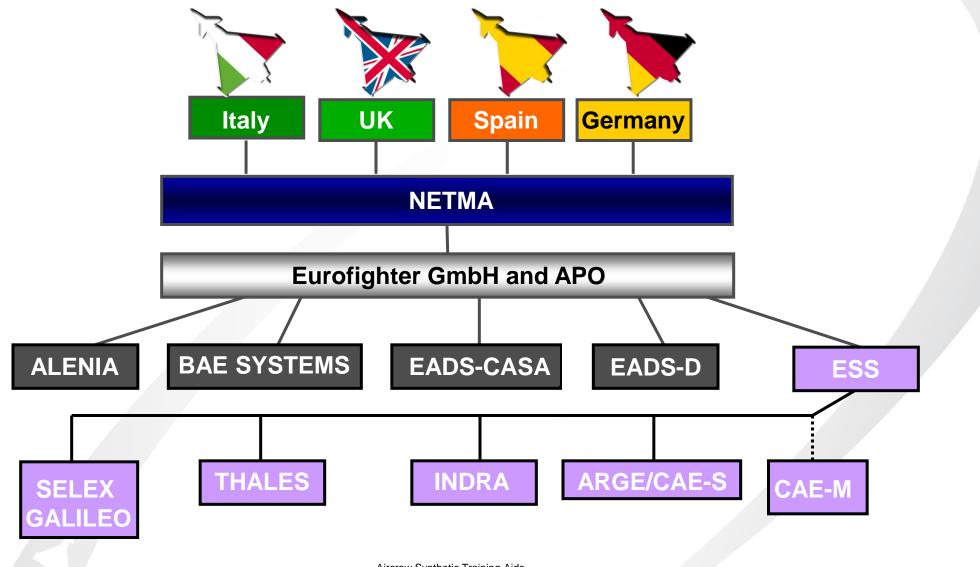
- Aircrew Syntetic Trainig Aids (ASTA) Cassidian GE
- Ground Support System (GSS) Cassidian SP
- Ground Training Aids (GTA) Alenia Aermacchi
- International Weapon System Support System (IWSSS) - BAES



Aircrew Synthetic Training Aids

ASTA Structure – Core Programme

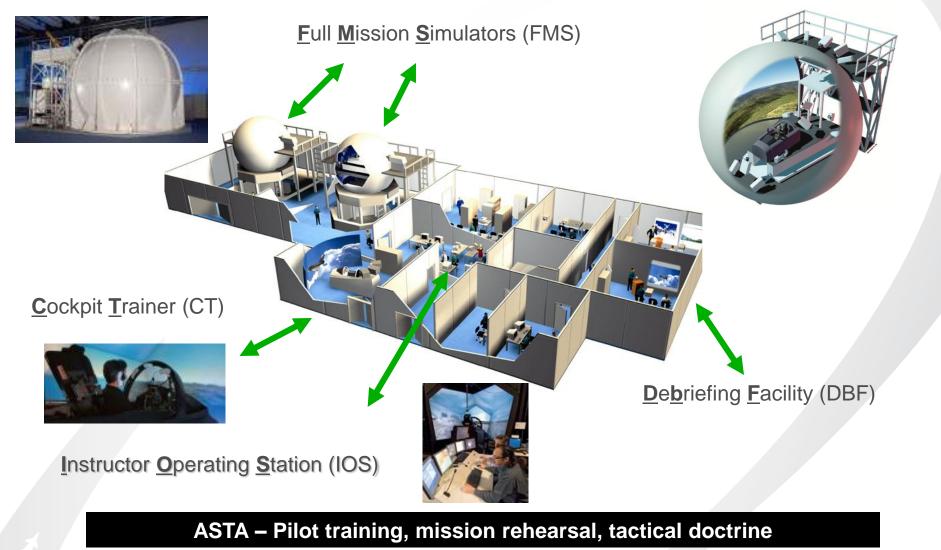






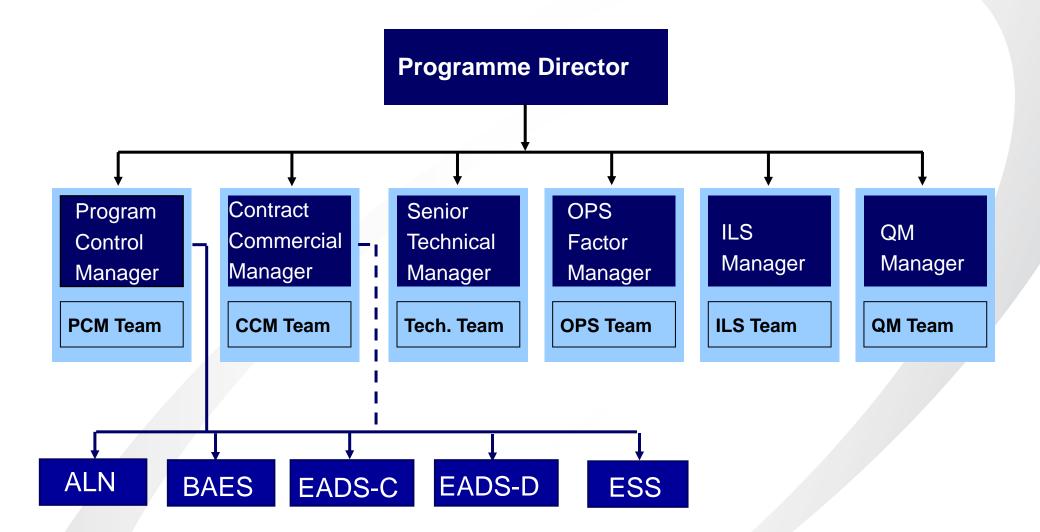
ASTA Training System and Solutions

ASTA Top Level Overview



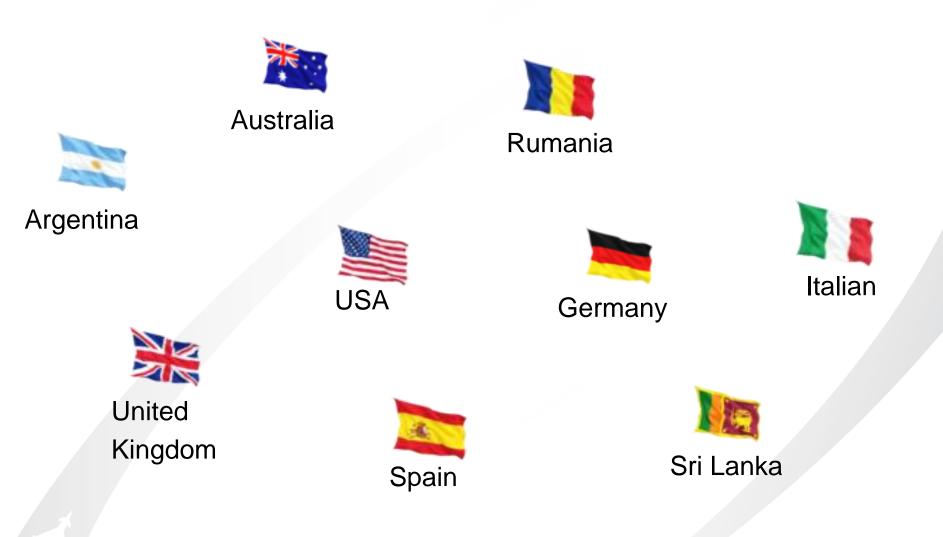


ASTA Programme Management Organization





Intercultural team constitute of 55 peoples



EF ASTA Programme Organisation (APO) Mission



- The APO is the System Design Authority for the complete ASTA System:
 - Customer Requirements Capture.
 - Contract Doc. Preparation and negotiation
 - Programme Management
 - System Definition and Design.
 - System Integration, Test and Qualification.
 - Customer Acceptance Test
 - Software Production and Delivery
 - Integrated Logistic Support



Initialization Phase

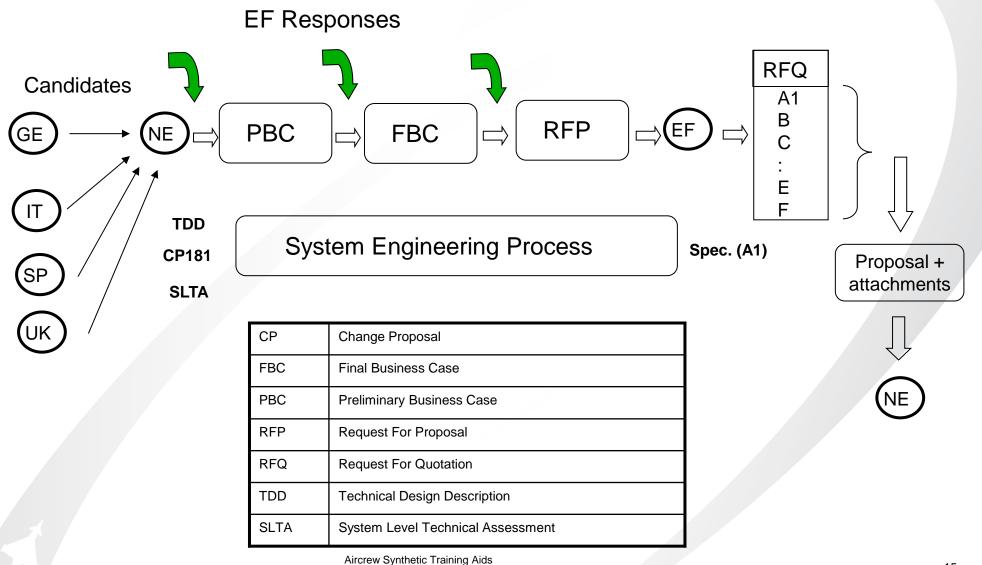


Tools

- Requirements analysis DOORS
- Engineering Management JIRA
- Integration Management TARANTULA
- Query Management Own Developed
- Configuration Management PVCS
- MS Project and Excel



Customer Requirements Capture & Contract

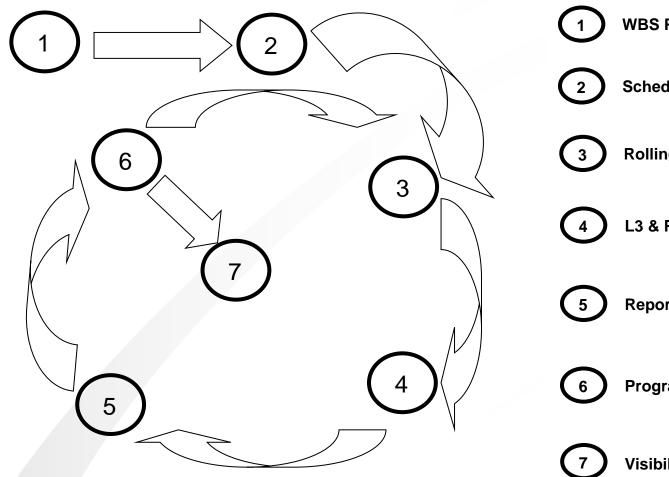




Planning Phase



Project Management – Process Definition



WBS Preparation

Schedule Preparation

Rolling-wave planning concept

L3 & Planners level with Jira

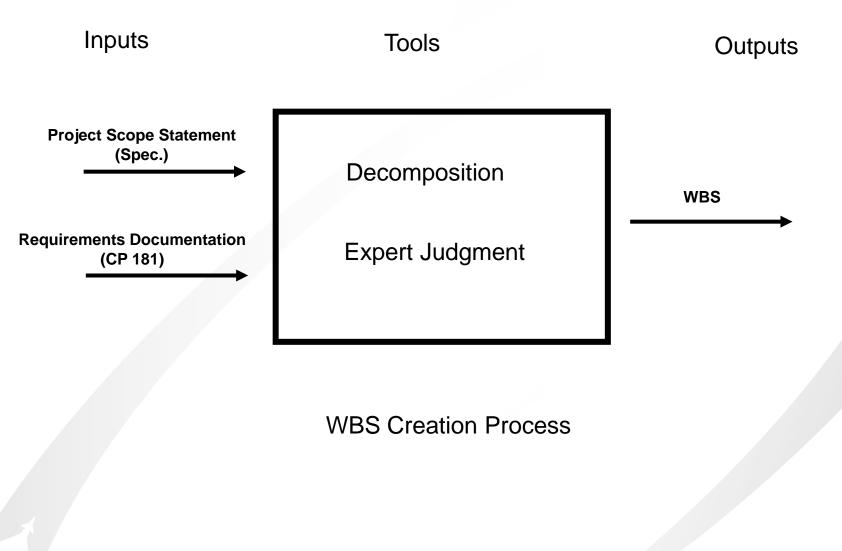
Reporting to PCM – EV analysis

Programme / Projects Review Meetings

Visibility monthly report from PCM

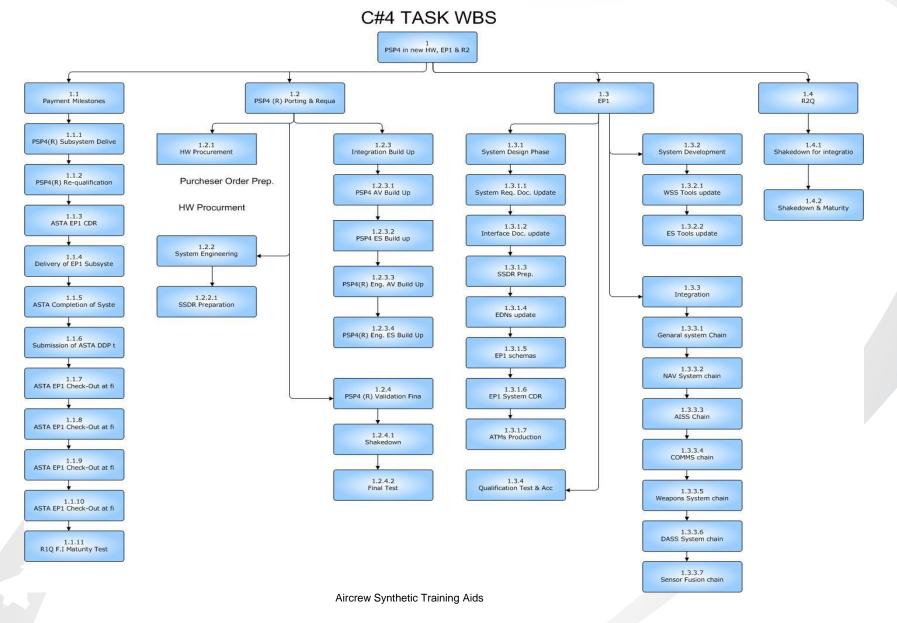


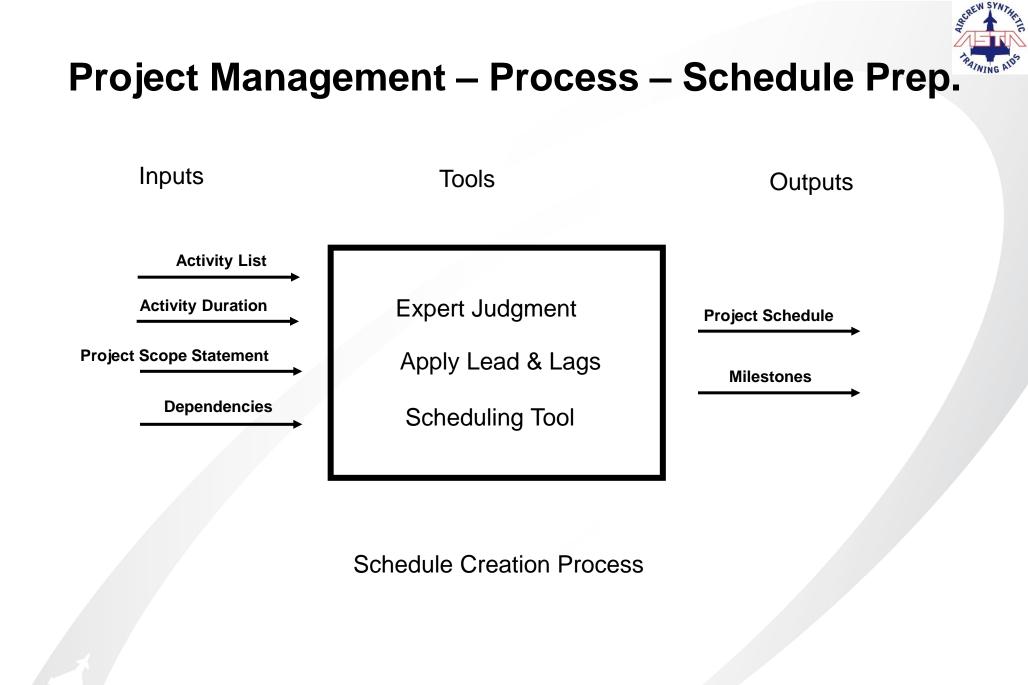
Project Management – Process – WBS Prep.





Project Management – Process – WBS (1)





Project Management – Process – L3 Level



GreenHopper Team Scrum - Agile	Board - Atla	ssian JIRA		
(JIRA		State Greenhopper Feel)BACKI admin -	Administratio
ashboards - Projects - Issues - <mark>Agile -</mark> Bonfire -		+ Create Iss	ue Quick Search	
GreenHopper Team Scrum -		1	Plan Work Repo	rt 🕼 Tools -
Quick Filters: Only My Issues Recently Updated				
Angry Sprint Progress: Progress: 23/Jul/12 4:21 AM - 03/Aug	8 days left 12 4:21 AM	Angry Nerds / NERD-4 As an Outsourcerer I wa	nt to get paid fo	¢+ r working
A NERD-1 As a Front-Ender I would like to stop supporting IE6 so I can enjoy my life	3	in my pyjamas	5 1	Ŭ
A NERD-2 As a Hacker I would like more Red Bull so I can work all night	8		ſ	Estimate: 20
☆		Details Description (0) 🛇	(0) 📋 (2) 🏨	(1)
NERD-4 As an Outsourcerer I want to get paid for working in my pyjamas	20	Status: Not Started		0/1 Completed
		Session	Status	Actions
	13	Confirm they are in pyjamas	Created	
NERD-8 As a Bug I want to fly in the face of progress				
NERD-7 As a Bug I want to make like hard for the Angry Nerds		Create Session		
Upcoming Sprint 1 Start	Sprint 🔘			
Image: Image				
2 1 NERD-12 As a Front-Ender I would like to stop supporting IE7 so I can enjoy my life	5			
2 * NERD-13 As a Hacker I would like more pizza and beer	3			
2 🐨 🕈 NERD-20 As a Hacker I would like to hack the mainframe and enter the Matrix	13			
2 1 VI NERD-14 As a Dev Manager I want make everyone log time so I can make nice charts	8			
Issues 5 Estima	ate 29			
Upcoming Sprint 2	0			
NERD-15 As an Outsourcerer I want to work more hours and get less done	3			
🕼 🕸 NERD-16 As an Agilista I want to be lean to make the green, quicker	1			
👔 🏫 NERD-17 As an Agilista I want to iterate on the rate so I can rate the iteration	5			
Issues 3 Estima	ate 9			

L3 Tasks get allocated to build cycles or sprints

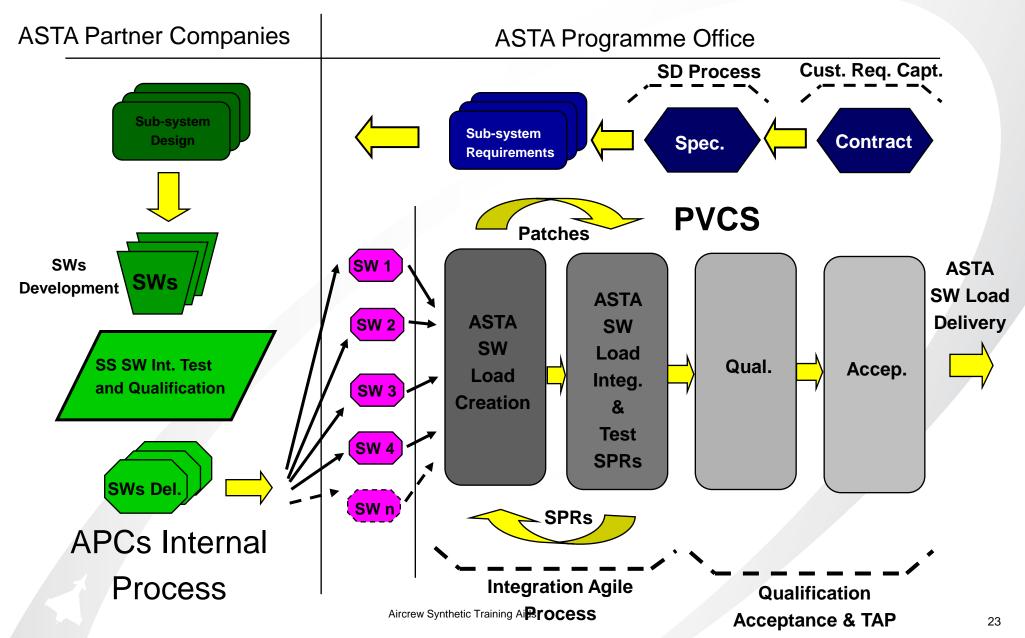
Aircrew Synthetic Training Aids



Execution Phase

Product End To End Process

CREW SYNTHE





Integration at Joint Integration Facility (JIF)

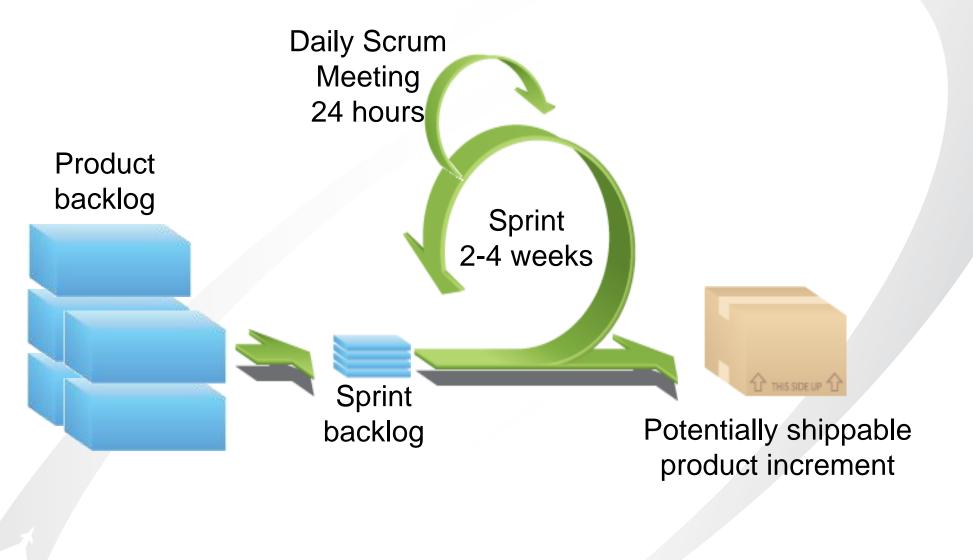


AGILE Principles

- Working software is delivered frequently (weeks rather than months)
- **Working software** is the principal measure of progress
- Welcome changing requirements, even late in development
- Close, daily co-operation between business people and developers
- Face-to-face conversation is the best form of communication (co-location)
- Simplicity
- Self-organizing teams

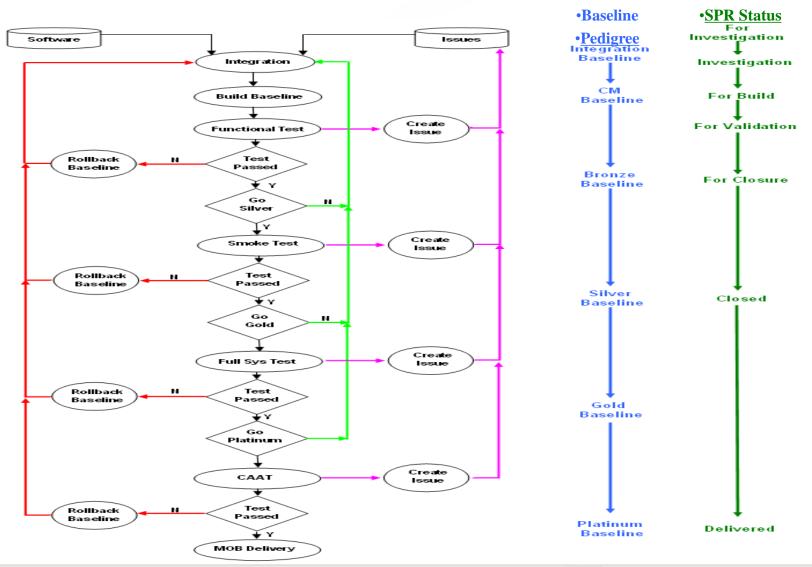
Scrum Diagram







Test and Integration Level



Aircrew Synthetic Training Aids



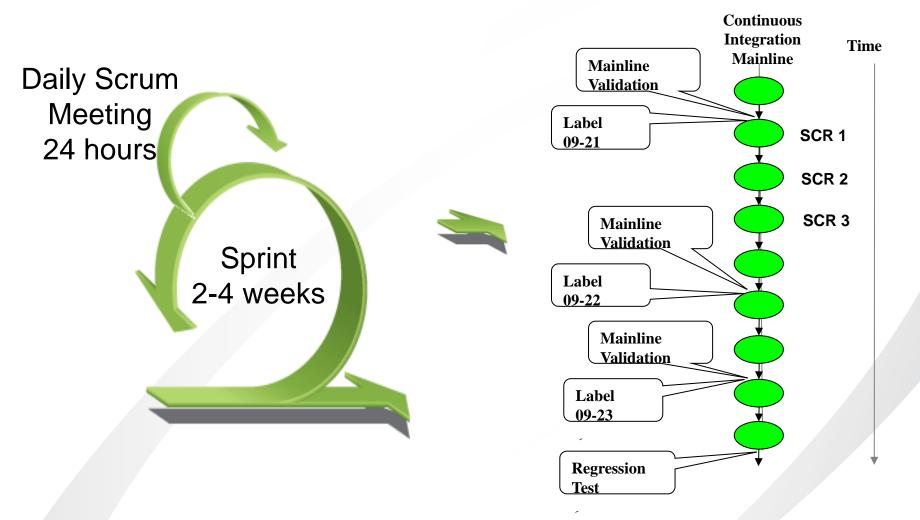
Test and Integration Level

There is three main "level" of integration at the Joint Integration Facility (JIF)

- Functional Test
- Smoke Tests
- Full System Tests

Scrum and SCM





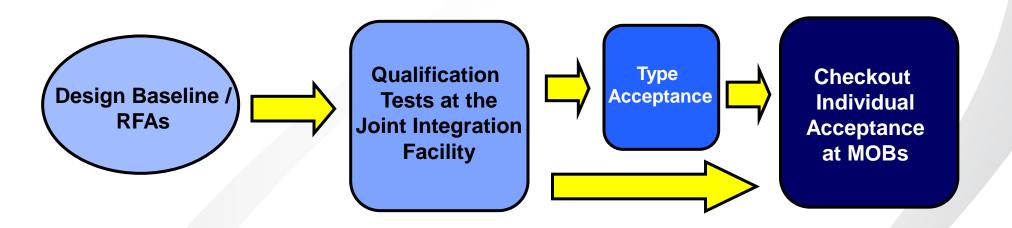
SCR = Software Change Request



Qualification & Acceptance



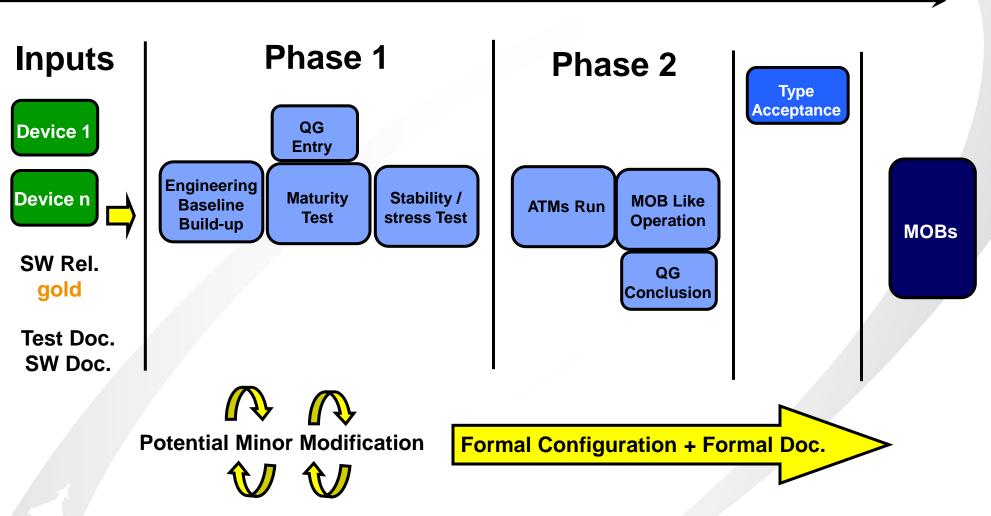
Qualification & Acceptance Process





Quality Gate Concept

time





Monitoring and Control

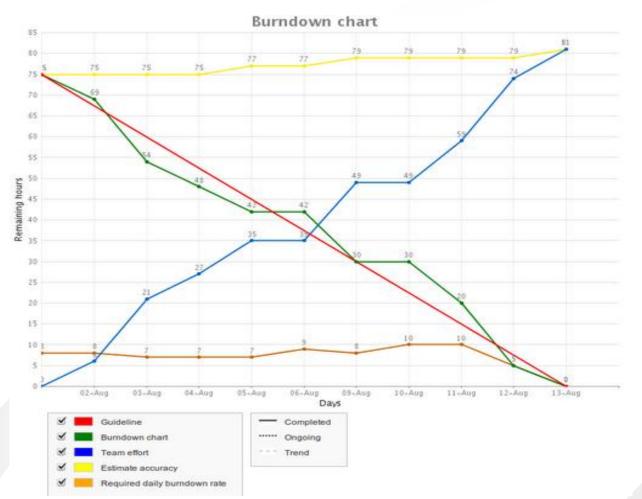


Single Project Key Performance Indicator

Project Name	E2E Project Stage						
	Pre-concept stage	Concept stage	Development Stage	Embodiment Stage	Utilization & support stage		
Schedule Variance			Î				
Schedule Performance Index							
Cost Variance							
Cost Performance Index				\checkmark			
Risk Assessment indicator							
N° of issues							
Issues validation measurement							
Issues Closing Adherence							
Requirement Tech. Compliances							
ATM Testing pass rate							
Device Availability versus planned							

Project Management – Process – Reporting to PCM



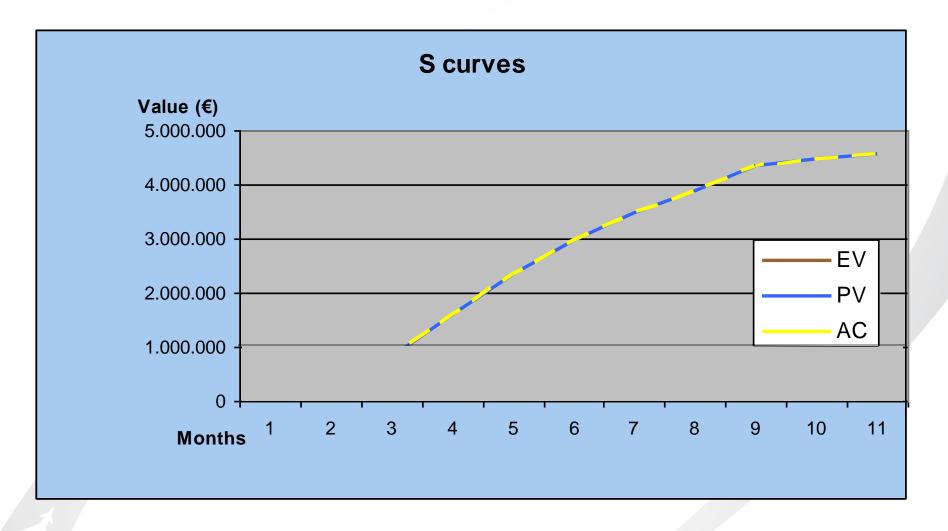


L3 Task progress is reported back to PCM via a Burndown chart of the current cycle or sprint

Aircrew Synthetic Training Aids

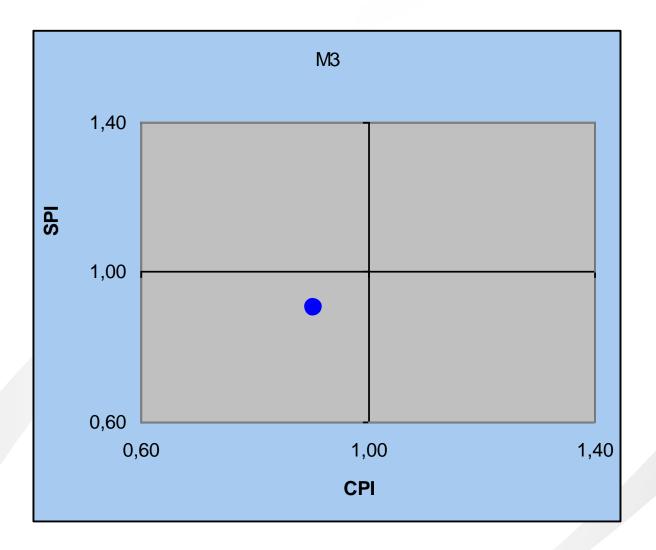


Single Projects S curves



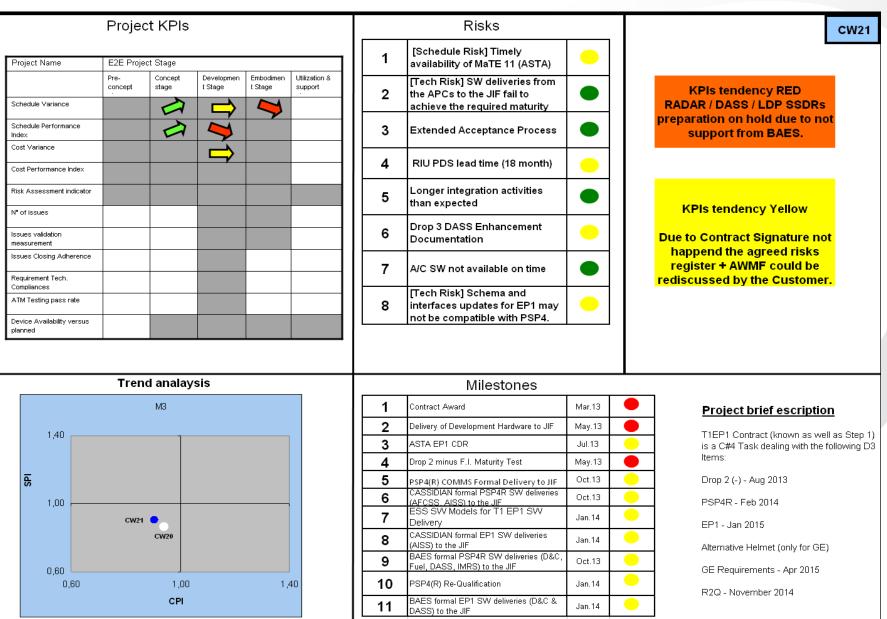


Single Project SPI / CPI Graphic



Sigle Project Dashboard (sample)







ASTA - Overall Integrated Dash-Board

Project 1	E2E Process Stage						
KPI	Pre- Concept	Pre-Concept Concept Development Embodiment Utilisation & Su					
Schedule Variance			1				
Risk Indicators		1	IJ				
Resource Issues							
Product Content			\rightarrow				
Concurrency Indicator					\Rightarrow		

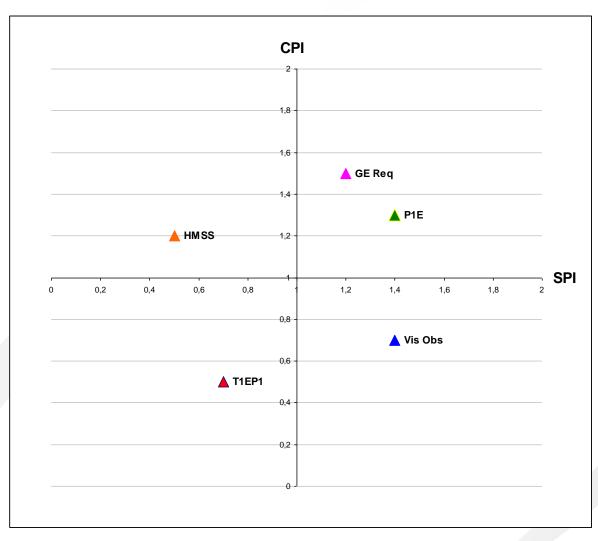
Project 2	E2E Process Stage						
KPI	Pre-Concept	Pre-Concept Concept Development Embodiment Utilisation & Supp					
Schedule Variance	Î						
Risk Indicators	ţ						
Resource Issues	Ť						
Product Content	\rightarrow						
Concurrency Indicator							

Project 3	E2E Pro c ess Stage				
KPI	Pre- Concept	Concept	Development	Emb odiment	Utilisation & Support
Schedule Variance					
Risk Indicators	ţ				
Resource Issues	Î				
Product Content	Î				
Concurrency Indicator					1

Project 4	E2E Process Stage					
KPI	Pre-Concept Concept Development Embodiment Utilisation & St					
Schedule Variance						
Risk Indicators						
Resource Issues						
Product Content	\Rightarrow					
Concurrency Indicator					\rightarrow	



Projects Monitoring and control





Execution Follow-up (Sample)



Executionfollowup

Aircrew Synthetic Training Aids



Questions?

Thank you

Aircrew Synthetic Training Aids