



Vedlikehold av Integrert våpensystem



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FLO/M-T-MS

01.11.2004

Forsvarets Logistikkorganisasjon / Materiell – Teknisk / Maritime systemer



Innhold

Oppdatert: 01.11.2004

- Vedlikeholdsobjektet
 - Komplexitet
- Vedlikeholdet
 - Hardware
 - Software
- Verktøy
- Merkantile forhold



Spesifikasjoner

Oppdatert: 01.11.2004

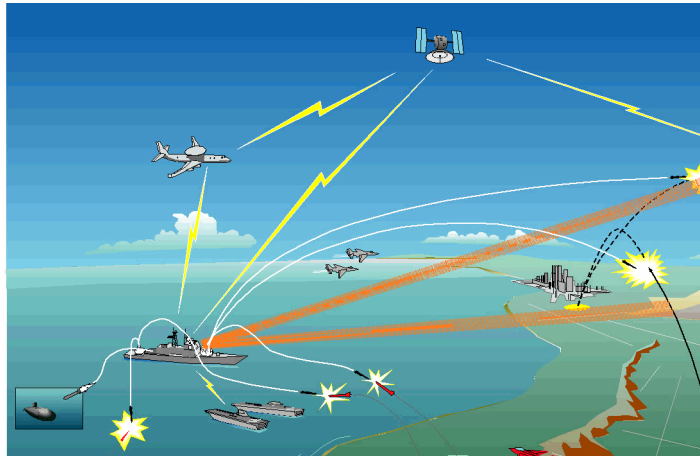


- Kan vi ikke bare sette ut alt?

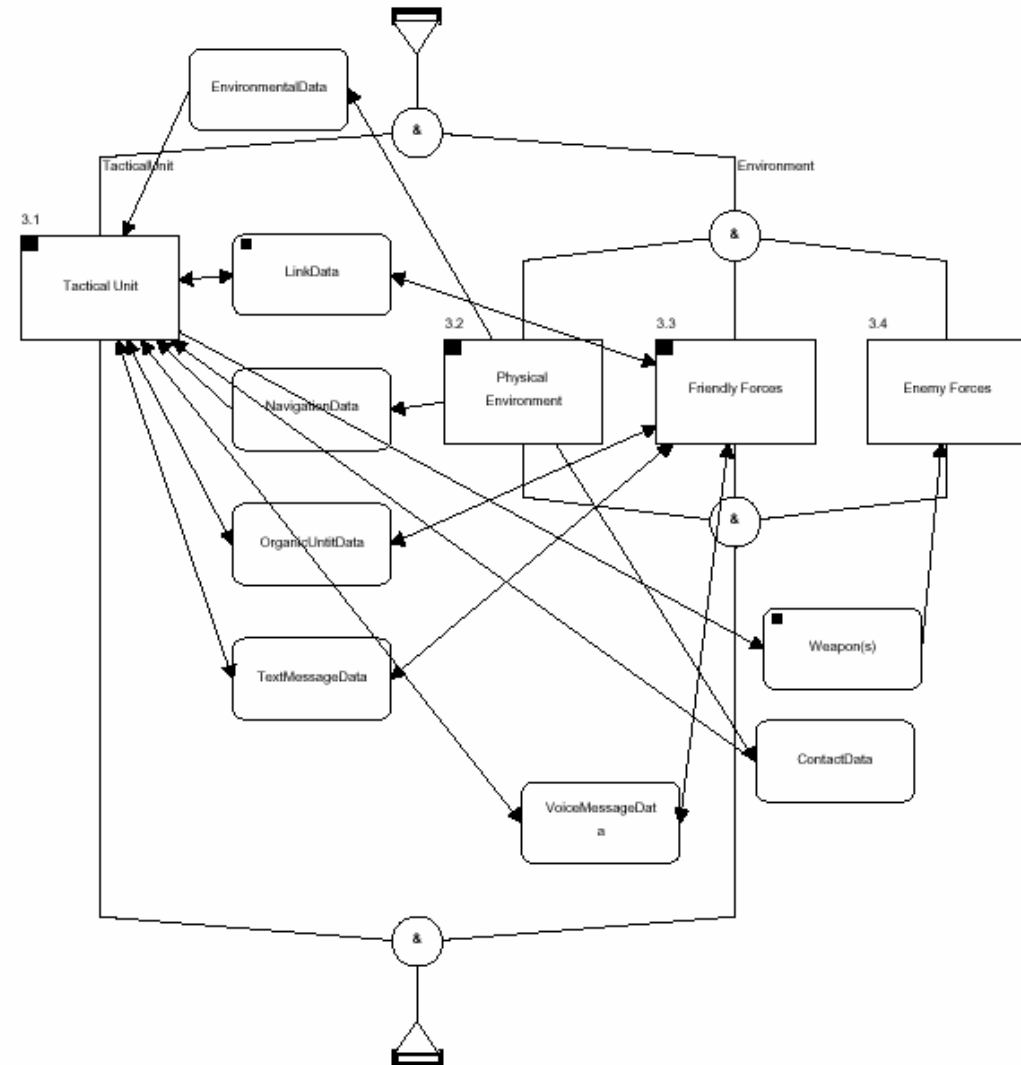


Kompleksitet - Funksjoner

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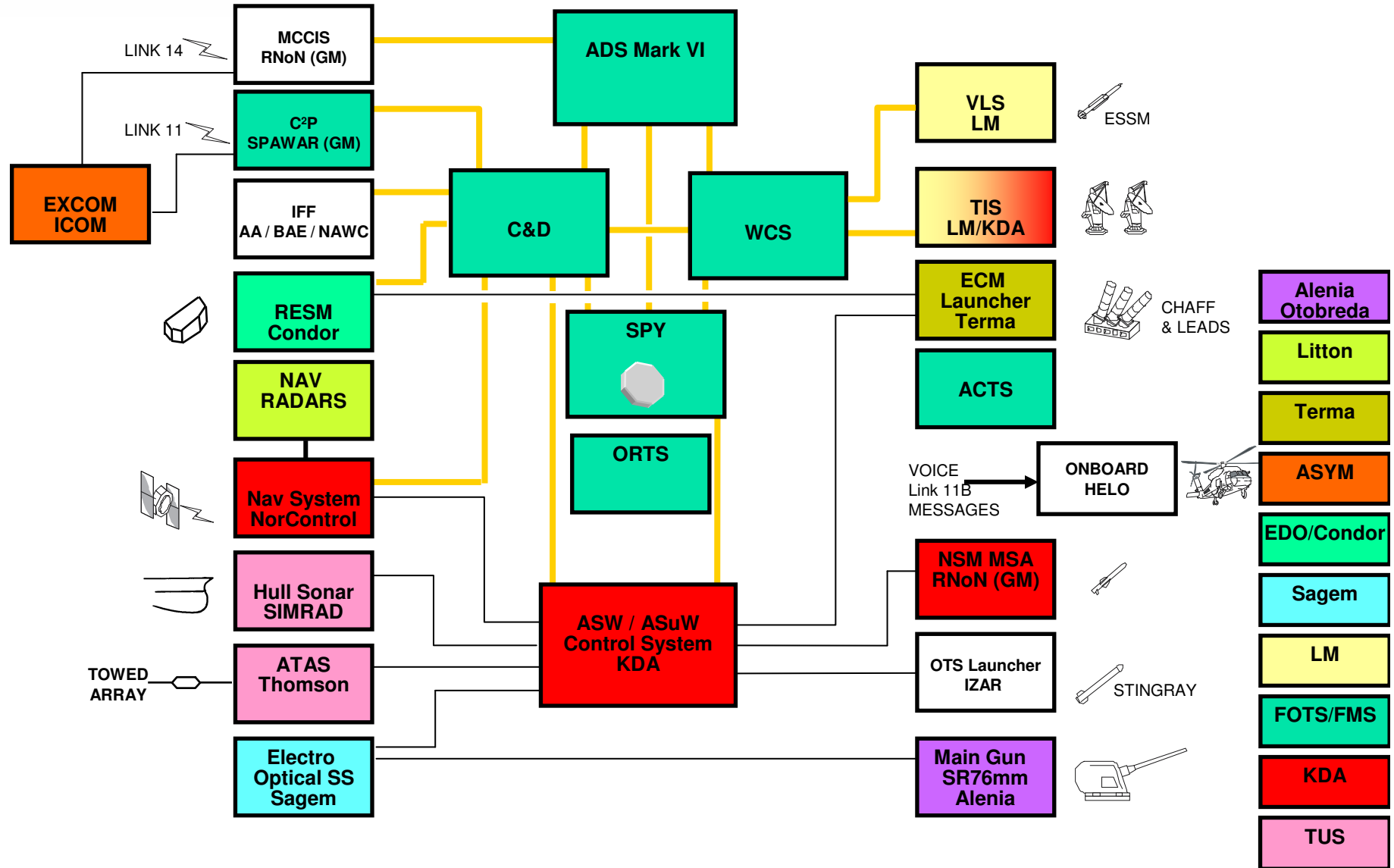
- Funksjoner
- Ytelser
- Omgivelser
- Krav





Kompleksitet - Leverandører

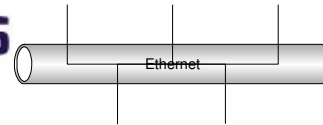
Oppdatert: 01.11.2004



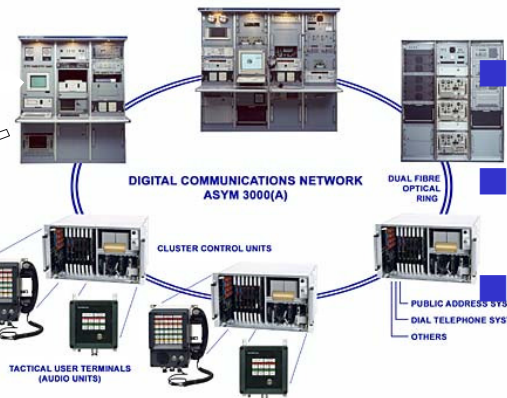
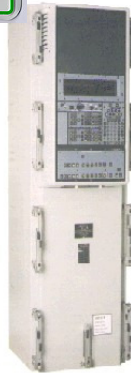
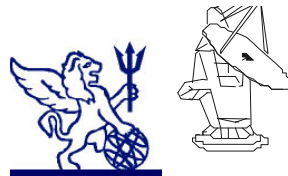


Kompleksitet - Teknologi

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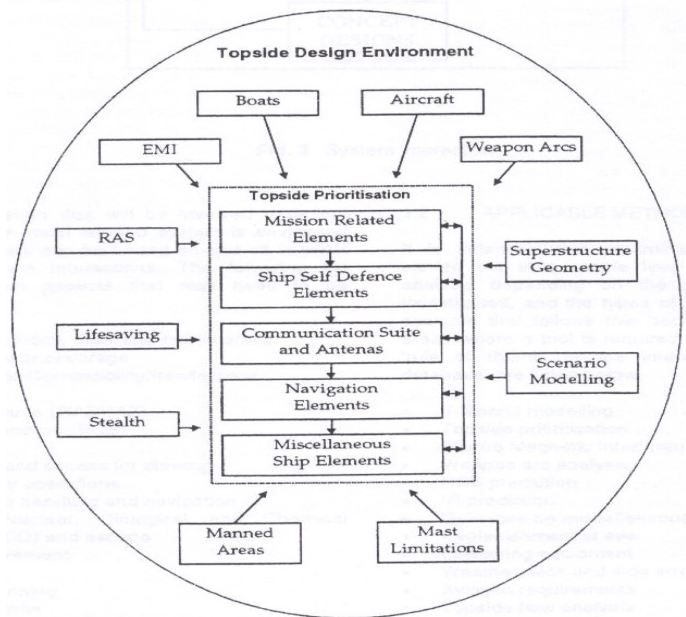
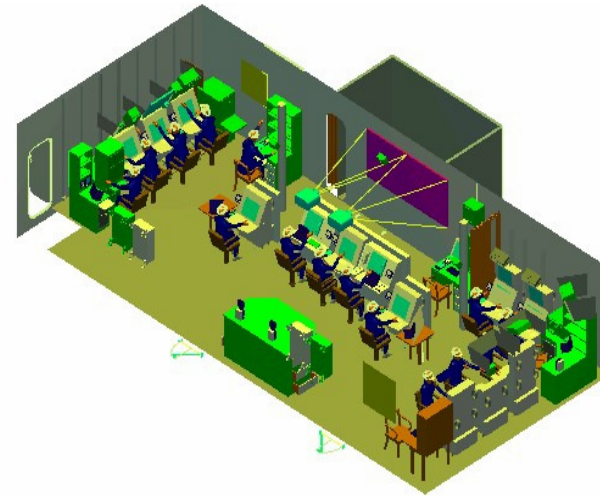
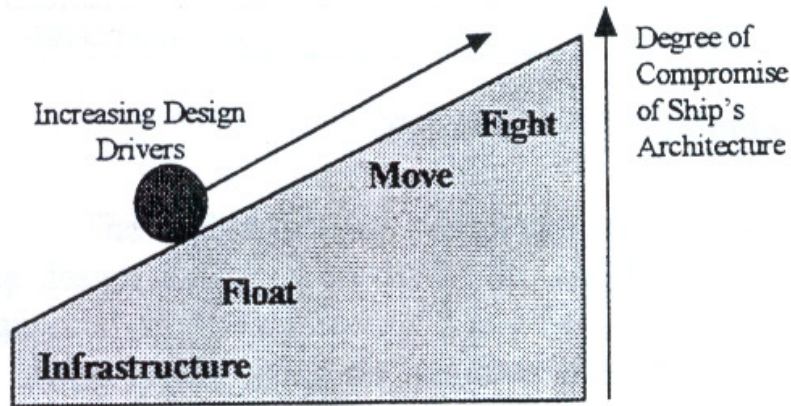
- Alder/levetid
- Marked
- COTS
- Industri-standard
- Fagområde
- Integrasjon
- Kompetanse
- Programvare
- Versjoner





Kompleksitet - Integrasjon

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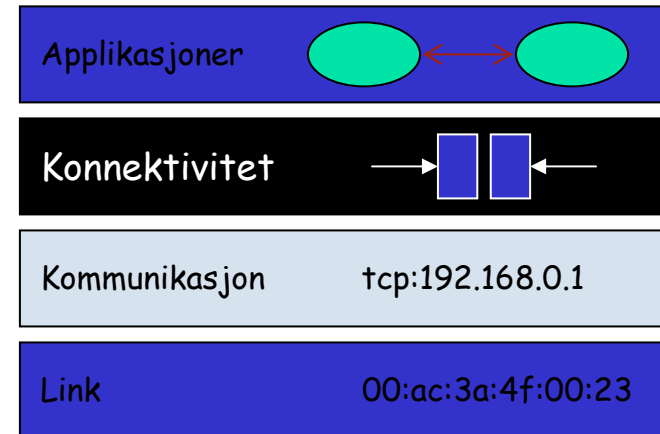
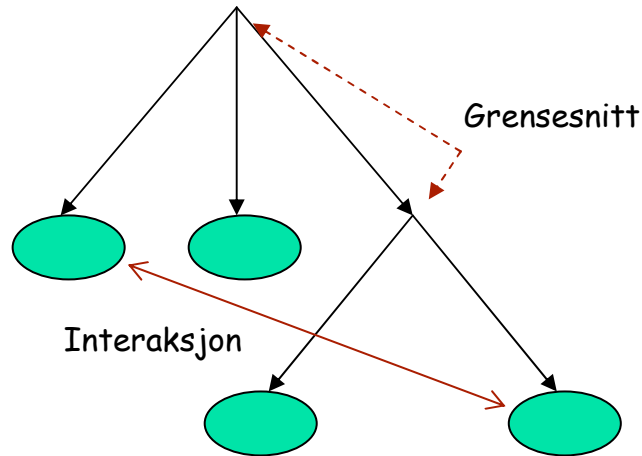


- En kompleks militær kapasitet avhenger av integrasjon når den blir **anskaffet** og når den blir **forvaltet i levetiden**



Funksjonalitet i SW

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Funksjonene interakterer gjennom grenene i hierarkiet

SW funksjoner interakterer med hverandre via funksjonelle lag.

I SW kan interaksjoner være mellom de laveste lagene i hierarkiet, feks gjennom flere grensesnitt

Løser system integrasjon med å betrakte "lag for lag"

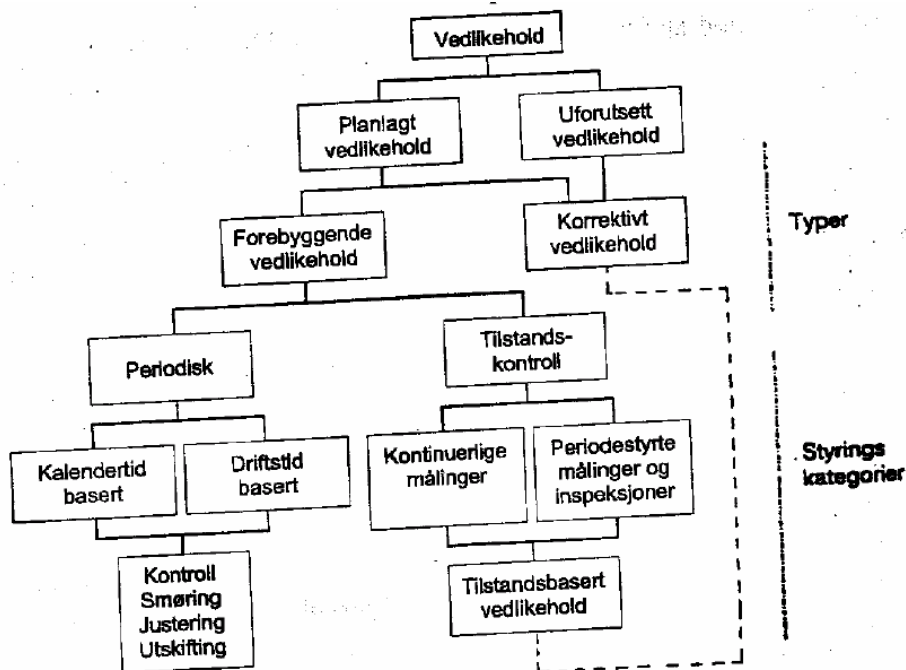


Vedlikeholdstyper - Hardware

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Software

- three distinct types of maintenance:
 - corrective (fixing defects),
 - adaptive, (enhancements),
 - and perfective (improving software quality)



Hardware



NAVSEA Risk Assessment Criteria

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CPCR SEVERITY CATERGORY					PROBABILITY RANKING		
5	4	3	2	1			
5A	4A	3A	2A	1A	A		VERY HIGH RISK - MUST RESOLVE ASAP
5B	4B	3B	2B	1B	B		HIGH RISK - IMMED RES DESIREABLE
5C	4C	3C	2C	1C	C		
5D	4D	3D	2D	1D	D		MANAGEABLE RISK RES CAN BE DELAYED
5E	4E	3E	2E	1E	E		LOW RISK - RES NOT REQ'D

SEVERITY AND BG IMPACT

CATEGORY	DEFINITION	BATTLE GROUP IMPACT AS APPLIED
1	Prevents the operator's accomplishment of an operational or mission essential function, or which jeopardizes personnel safety	Battle Group operations and/or communications can not be completed, or personnel safety jeopardized.
2	Adversely affects the accomplishment of an operational or mission essential function so as to degrade performance and for which no alternative work-around solution exists	Battle Group operations and/or communications are severely degraded. No acceptable TTP exist.
3	Adversely affects the accomplishment of an operational or mission essential function and for which there is a "reasonable" alternative work-around solution	Problem has the potential to severely degrade Battle Group operations or communications, but operators consider TTP acceptable.
4	Operator inconvenience or annoyance	Battle Group operations and/or communications are slightly degraded but all ops may proceed.
5	All others	Battle Group operations and/or communications are not impacted but enhancement is desirable.

PROBABILITY

PROBABILITY	LEVEL	PROBABILITY DESCRIPTION
Frequent	A	Likely to occur frequently during a deployment, essentially equal to a probability of 1
Probable	B	Will occur several times during a deployment.
Occasional	C	Likely to occur sometime during a deployment, essentially equal to a probability of .5
Remote	D	Unlikely to occur during a deployment, but possible
Improbable	E	Extremely unlikely to occur, essentially equal to a probability of zero

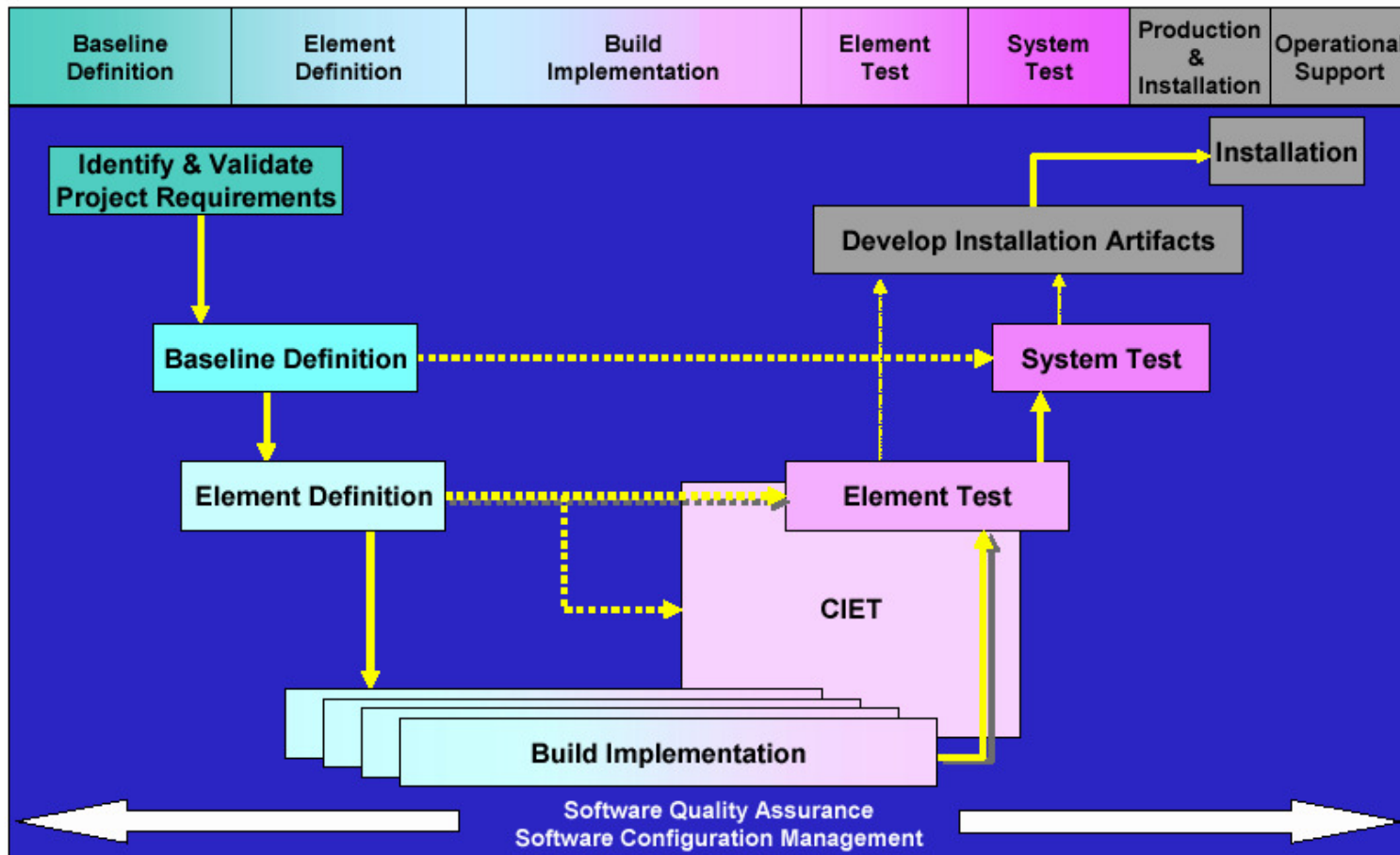


Definisjon til Testing

Oppdatert: 01.11.2004



F-310 Task/Process Areas "V" Chart





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Muligheter

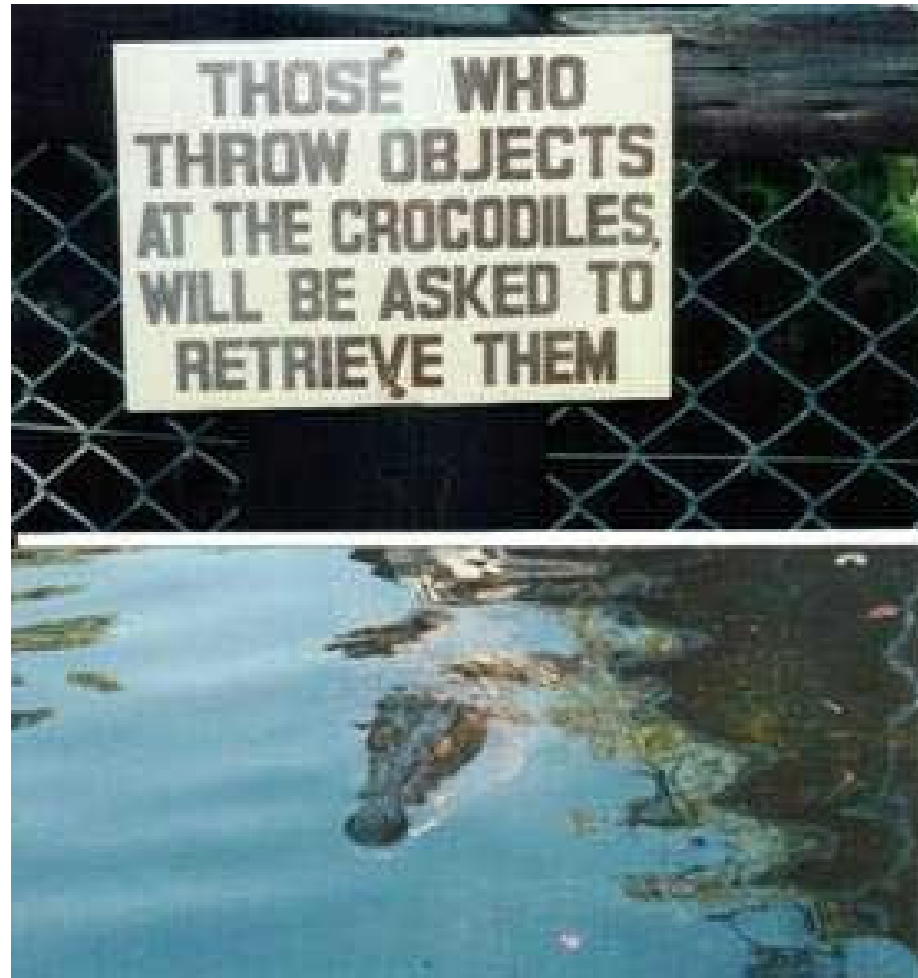


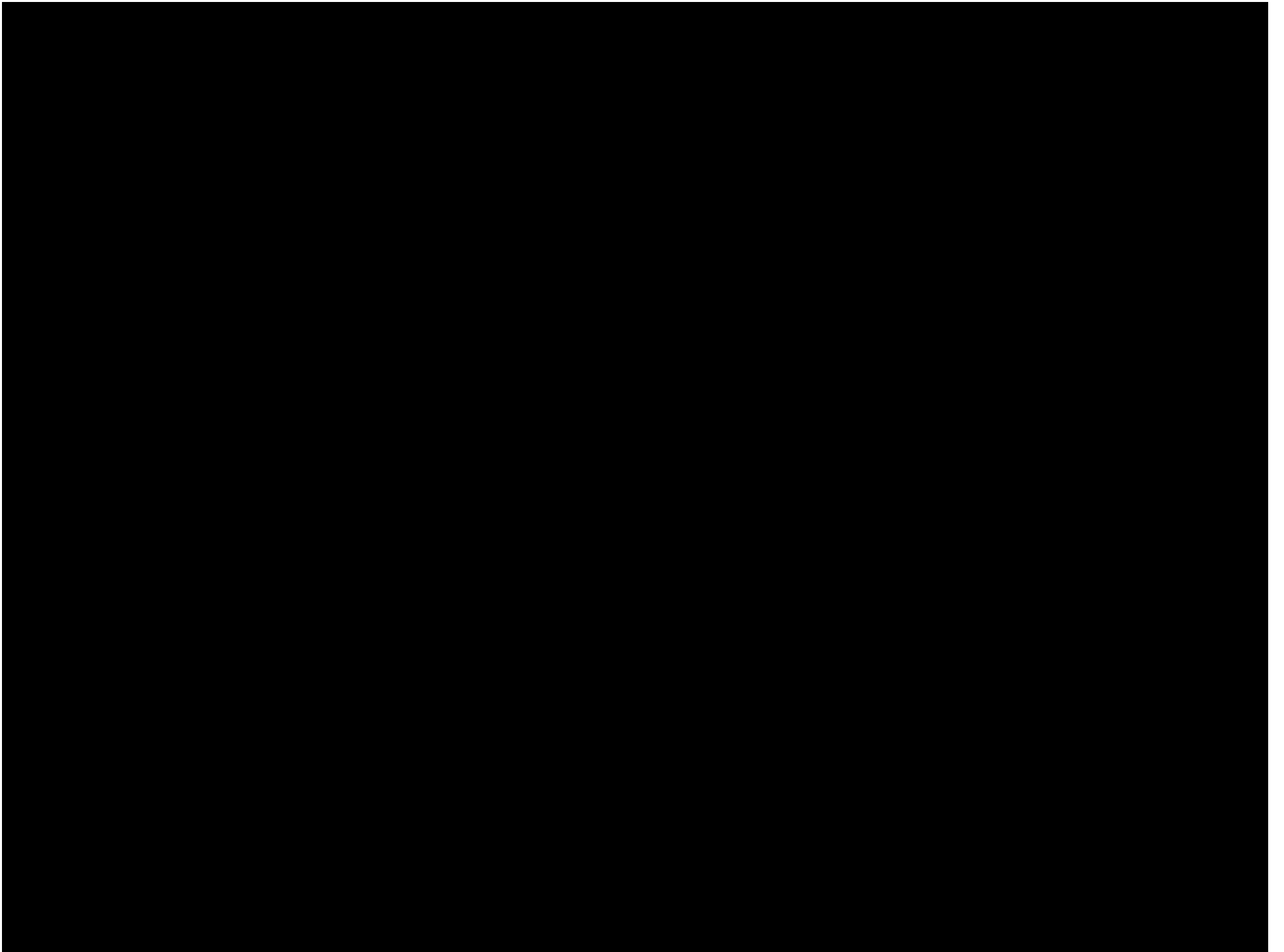
- Det er betydelig innsparingspotensial ved:
 - Koordinerte aktiviteter
 - Kompetanse og kapasitet i egen organisasjon
 - Ved å unngå store og uklare leveranser
 - Finne alternative kilder for å fremskaffe tjenester og leveranser
 - Langsiktighet i planer og budsjetter
 - Etablering av nye kompetanse/arbeidsområder
 - Ukuransoppfølging
 - Kontinuitet i egen organisasjon



Spørsmål?

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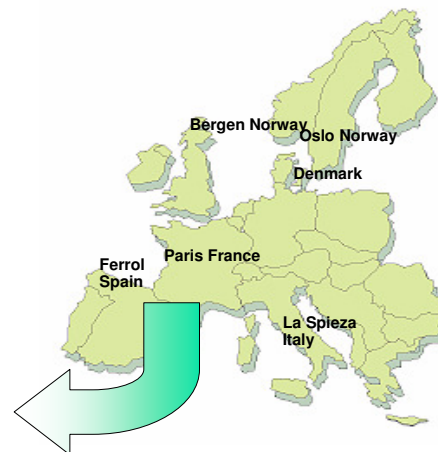
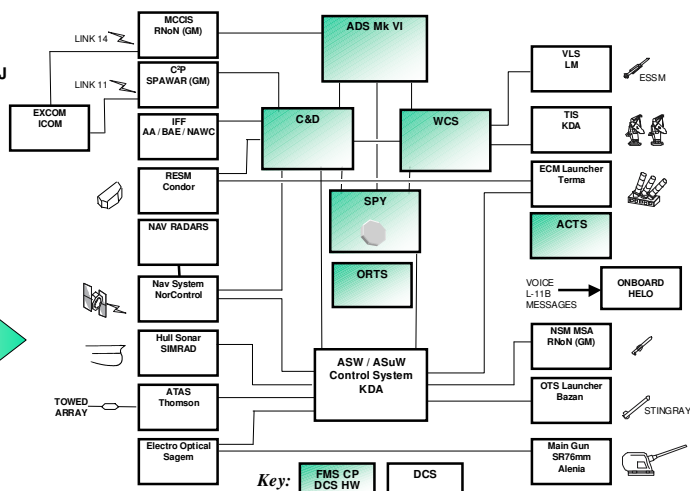
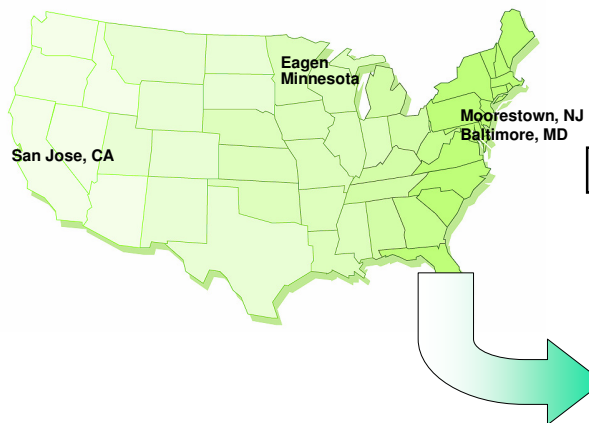






Baseline Departure

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Baseline Departure Point for AWS

BASELINE 6 ph 1		BASELINE 6 ph 3	BASELINE 7
<ul style="list-style-type: none"> •Harpoon (NSM Support) •ASWCS •EW •GFCS •IFF •Link 11 •NAV 	<ul style="list-style-type: none"> •ACTS •Advanced Displays •ORTS •JMCIS •SPY-1F •WCS •C&D 	<ul style="list-style-type: none"> •ESSM •ATES 	<ul style="list-style-type: none"> •ORTS IP •VLS •ACEG •Advanced Signal Distribution Sys