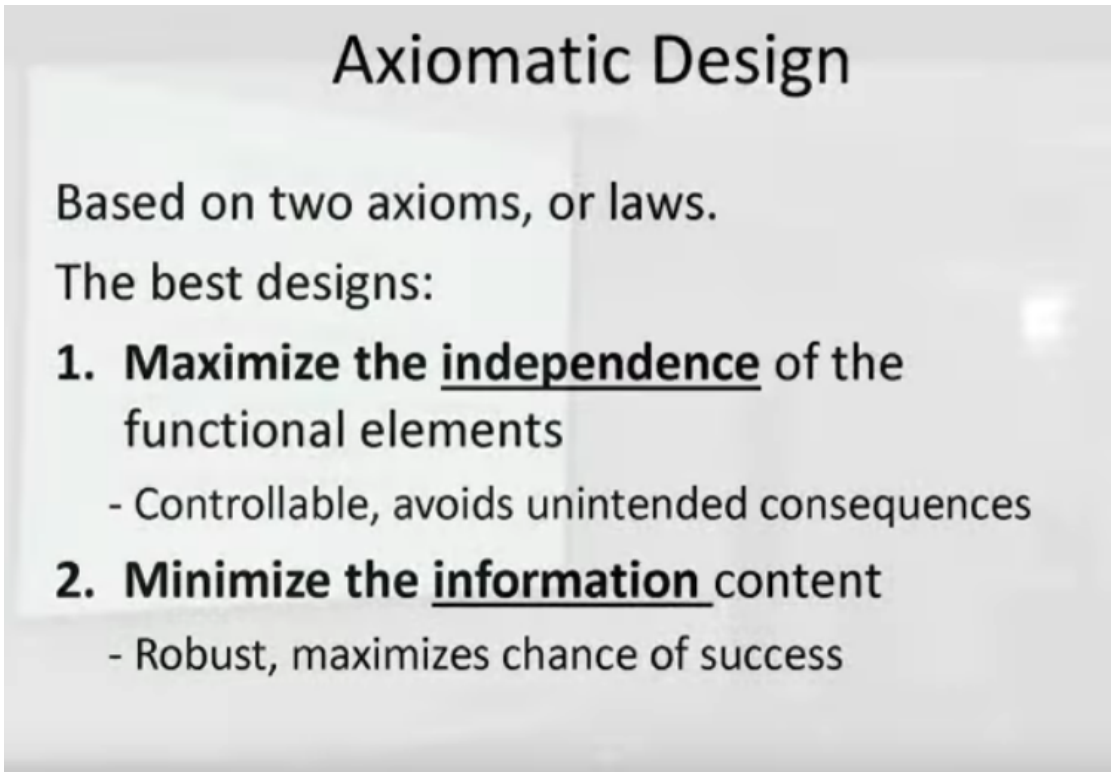
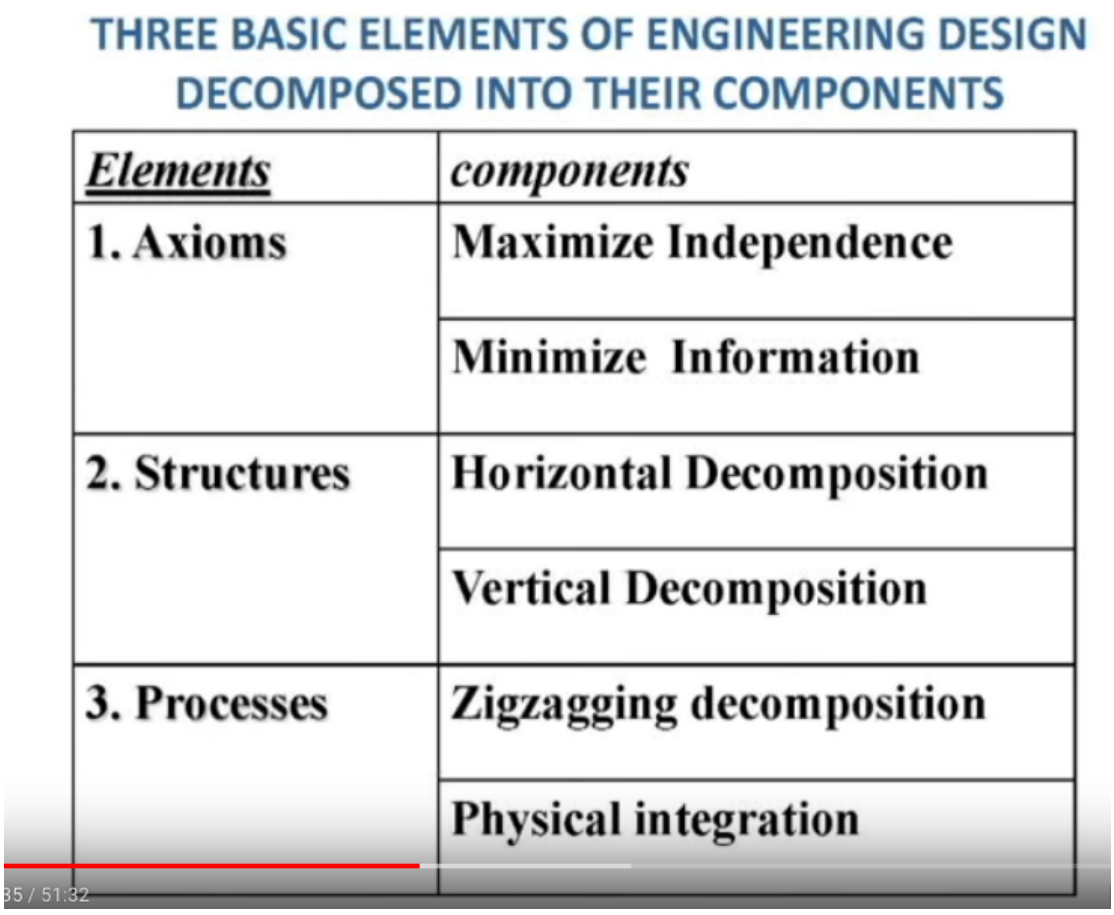
# PROJETO AXIOMÁTICO



## *STRUCTURE – HORIZONTAL DECOMPOSITION - DOMAINS*

**Horizontal decomposition** into **domains**:

**Customer** needs **CNs**– *what adds value*

**Functional** requirements **FRs** – *what it does*

**Physical** (Design parameters) **DPs** – *what it looks like*

**Process** variables **PVs** – *how you make it*

Constraints **CONs** – *what needs to be avoided*

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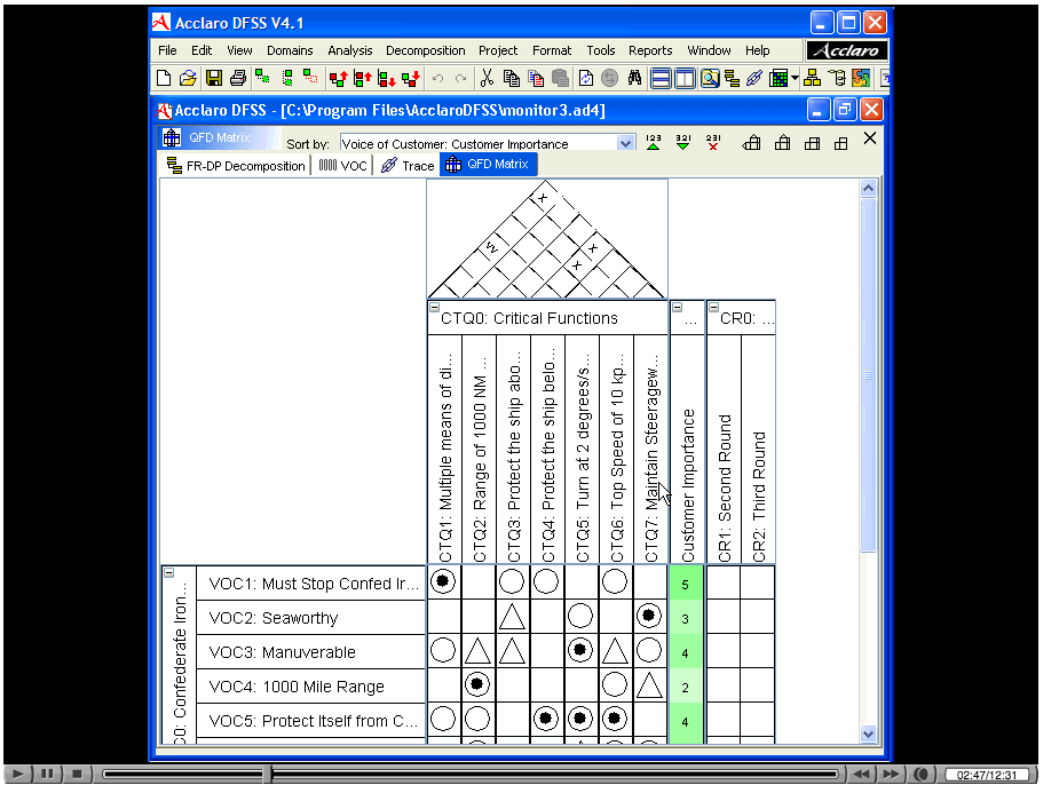
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File Edit View Domains Analysis Decomposition Project Format Tools Reports Window Help
Acclaro DFSS - [C:\Program Files\AcclaroDFSS\monitor3.ad4]
QFD Matrix
Sort by: Voice of Customer: Customer Importance
FR-DP Decomposition
VOC
Trace
QFD Matrix
CTQ0: Critical Functions
CR0: ...
CTQ1: Multiple means of di...
CTQ2: Range of 1000 NM ...
CTQ3: Protect the ship abo...
CTQ4: Protect the ship belo...
CTQ5: Turn at 2 degrees/s...
CTQ6: Top Speed of 10 kp...
CTQ7: Maintain Steerageway...
Customer Importance
CR1: Second Round
CR2: Third Round
VOC1: Must Stop Confed Ir...
VOC2: Seaworthy
VOC3: Manuverable
VOC4: 1000 Mile Range
VOC5: Protect Itself from C...
5
3
4
2
4
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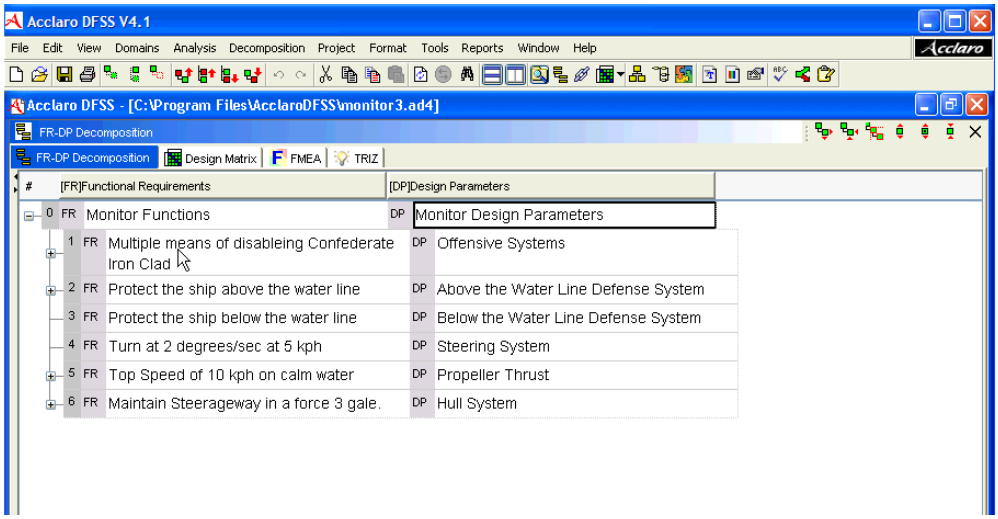
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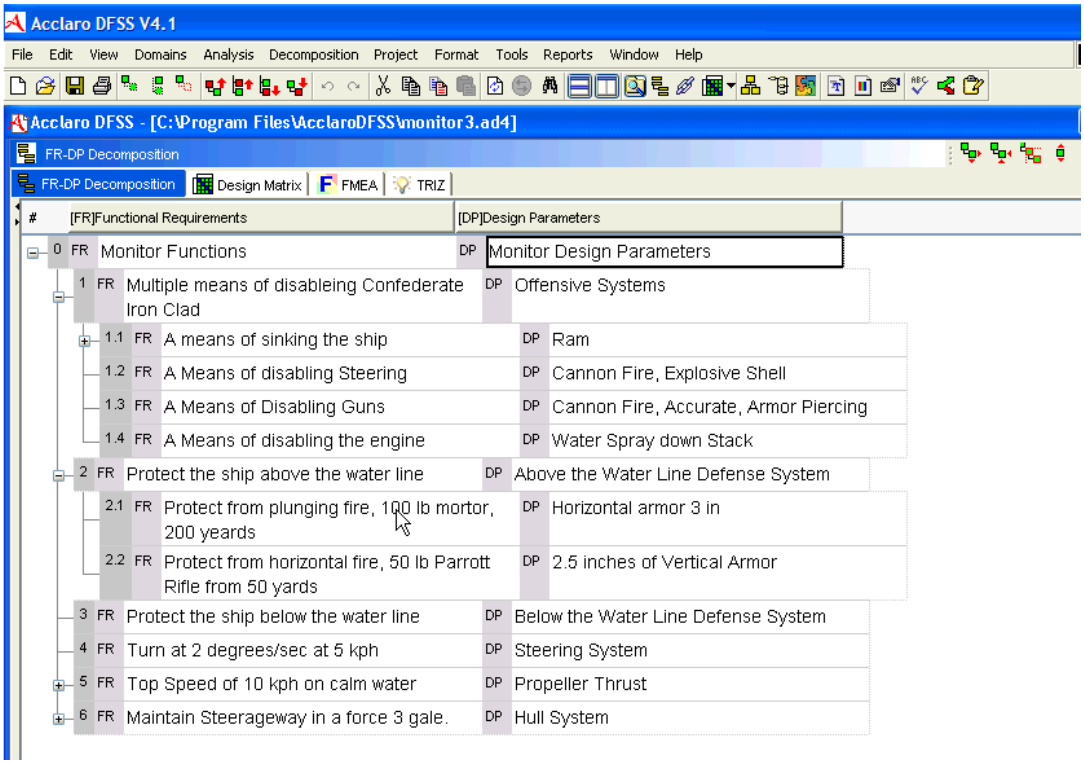
Acclaro DFSS - [C:\Program Files\AcclaroDFSS\monitor3.ad4]
FR-DP Decomposition
FR-DP Decomposition
Design Matrix
FMEA
TRIZ
# [FR]Functional Requirements [DP]Design Parameters
0 FR Monitor Functions DP Monitor Design Parameters
1 FR Multiple means of disableing Confederate Iron Clad DP Offensive Systems
2 FR Protect the ship above the water line DP Above the Water Line Defense System
3 FR Protect the ship below the water line DP Below the Water Line Defense System
4 FR Turn at 2 degrees/sec at 5 kph DP Steering System
5 FR Top Speed of 10 kph on calm water DP Propeller Thrust
6 FR Maintain Steerageway in a force 3 gale. DP Hull System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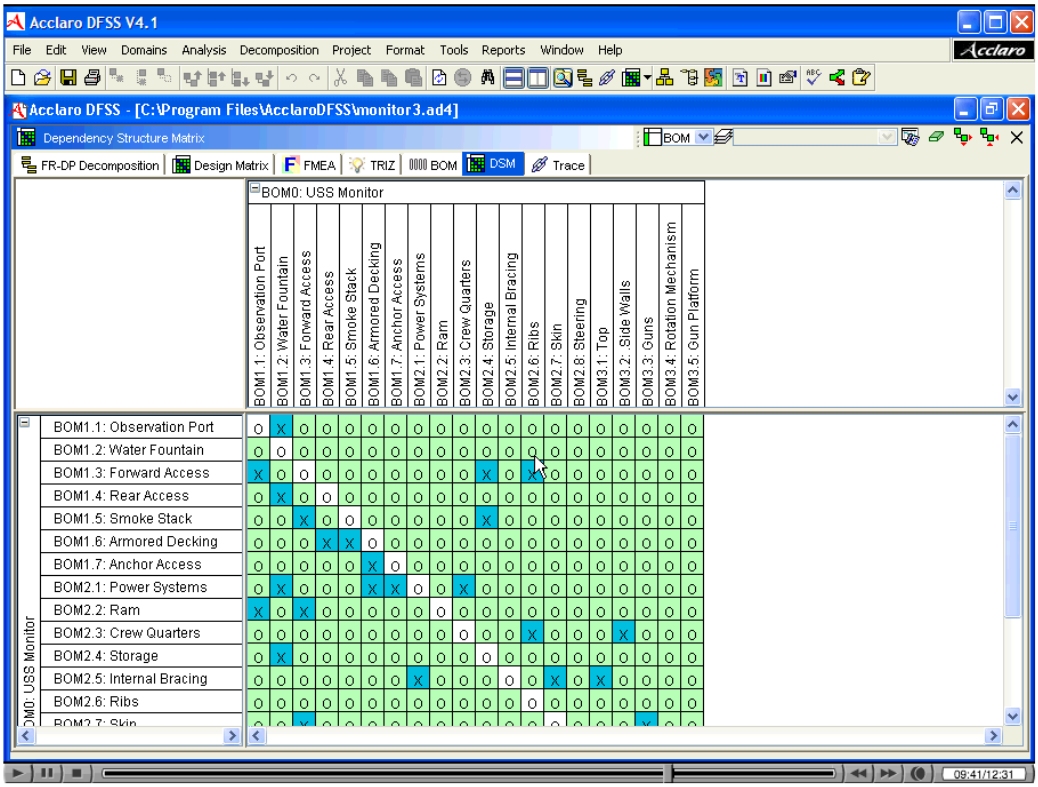
Acclaro DFSS - [C:\Program Files\AcclaroDFSS\monitor3.ad4]
FR-DP Decomposition
FR-DP Decomposition | Design Matrix | FMEA | TRIZ
# [FR]Functional Requirements [DP]Design Parameters
0 FR Monitor Functions DP Monitor Design Parameters
1 FR Multiple means of disableing Confederate Iron Clad DP Offensive Systems
1.1 FR A means of sinking the ship DP Ram
1.2 FR A Means of disabling Steering DP Cannon Fire, Explosive Shell
1.3 FR A Means of Disabling Guns DP Cannon Fire, Accurate, Armor Piercing
1.4 FR A Means of disabling the engine DP Water Spray down Stack
2 FR Protect the ship above the water line DP Above the Water Line Defense System
2.1 FR Protect from plunging fire, 100 lb mortor, 200 yeards DP Horizontal armor 3 in
2.2 FR Protect from horizontal fire, 50 lb Parrott Rifle from 50 yards DP 2.5 inches of Vertical Armor
3 FR Protect the ship below the water line DP Below the Water Line Defense System
4 FR Turn at 2 degrees/sec at 5 kph DP Steering System
5 FR Top Speed of 10 kph on calm water DP Propeller Thrust
6 FR Maintain Steerageway in a force 3 gale. DP Hull System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Dependency Structure Matrix
FR-DP Decomposition | Design Matrix | FMEA | TRIZ | BOM | DSM | Trace
BOM0: USS Monitor
BOM1.1: Observation Port
BOM1.2: Water Fountain
BOM1.3: Forward Access
BOM1.4: Rear Access
BOM1.5: Smoke Stack
BOM1.6: Armored Decking
BOM1.7: Anchor Access
BOM2.1: Power Systems
BOM2.2: Ram
BOM2.3: Crew Quarters
BOM2.4: Storage
BOM2.5: Internal Bracing
BOM2.6: Ribs
BOM2.7: Skin
BOM2.8: Steering
BOM3.1: Top
BOM3.2: Side Walls
BOM3.3: Guns
BOM3.4: Rotation Mechanism
BOM3.5: Gun Platform
BOM0: USS Monitor
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