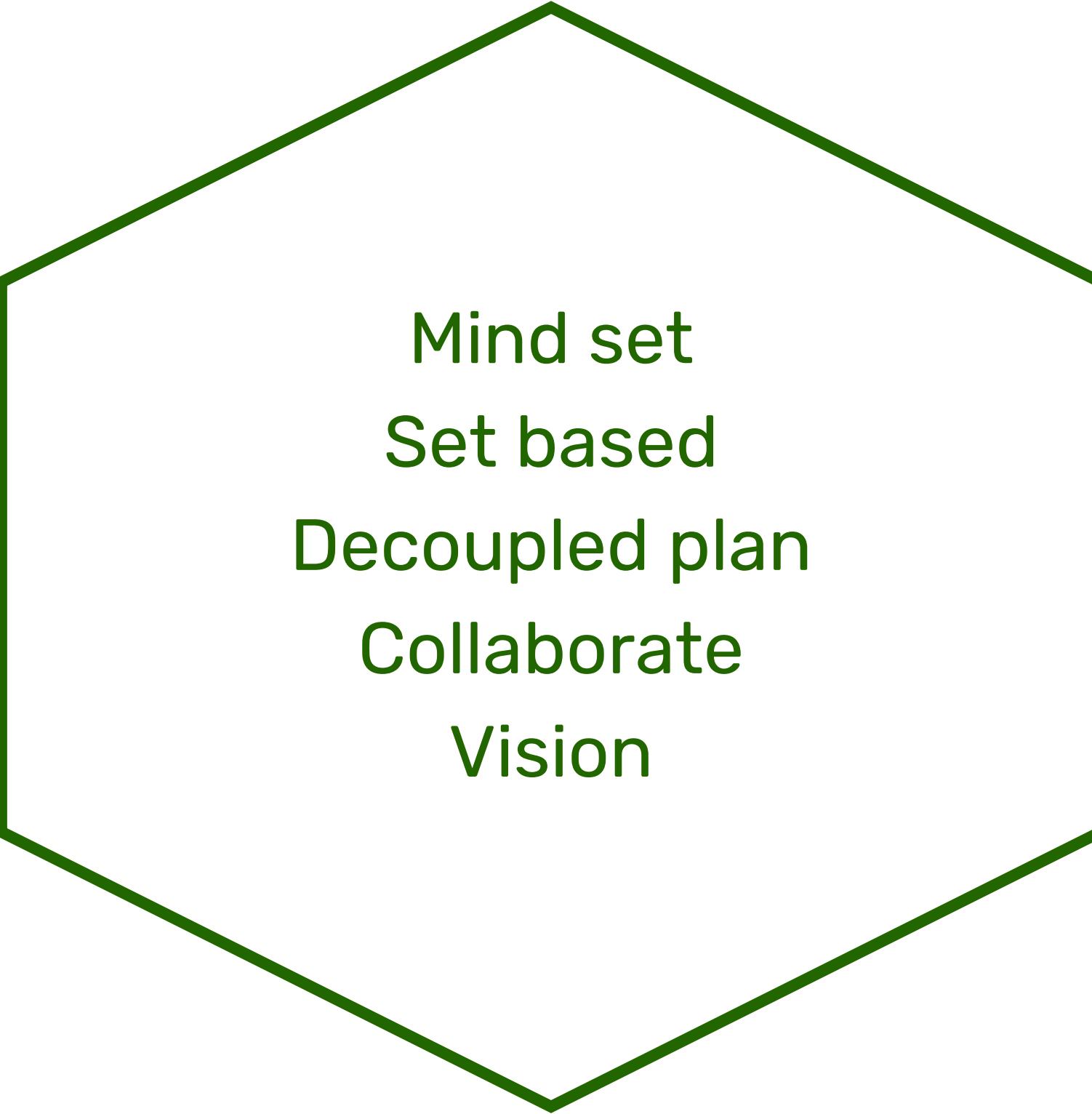


Innovation mindset and challenges

Sharing experiences from over 25 years of development and problem solving





Mind set
Set based
Decoupled plan
Collaborate
Vision



Mind set

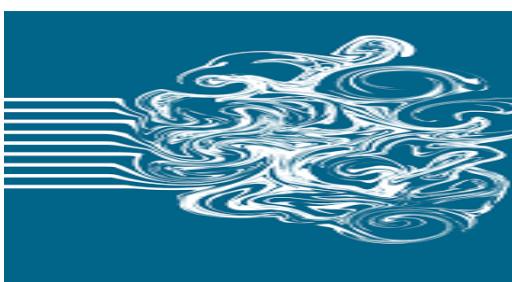


Problem?

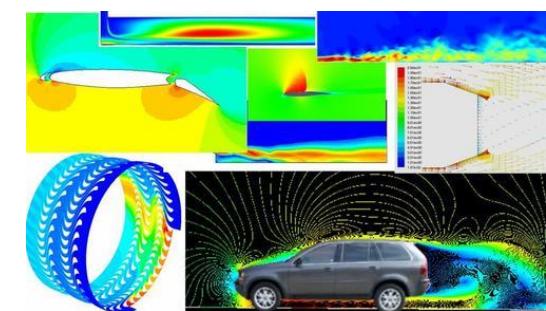
- Understanding
- Learning
- Engagement
- Motivation
- Curiosity



<https://sv.wikipedia.org/wiki/Gr%C3%A4nsskikt>



www.ltu.se



www.kth.se

What is the **best** solution?

- Test
- Iterate while learning
- Do not chose “the best”
- Deselect the worst
- Let people work with what they believe in



Wilbur's logbook showing diagram and data for first circle flight on September 20, 1904



Wilbur flying almost four circles of Huffman Prairie, about $2\frac{3}{4}$ miles in 5 minutes 4 seconds; flight 82, November 9, 1904.



Mind set



Problem?

- Understanding
 - Learning
 - Engagement
 - Motivation
 - Curiosity

What is the **best** solution?

- Test
 - Iterate while learning
 - Do not chose “the best”
 - Deselect the worst
 - Let people work with what they believe in

“There are no problems – only solutions!”



Wilbur's logbook showing diagram and data for first circle flight on September 20, 1904



Wilbur flying almost four circles of
Huffman Prairie, about $2\frac{3}{4}$ miles in
5 minutes 4 seconds; flight 82.
November 9, 1904.

Radar antennas



- Features/use cases
- Mockup (wood and ropes)
- Multiple solutions/teams
- Iterate and test
- Scale up
- Expand



<https://www.saab.com/products>

<https://www.forsvarsmakten.se/sv/aktuellt/2022/09/marinens-testar-obemannade-system/>

Enforcer III (unmanned)

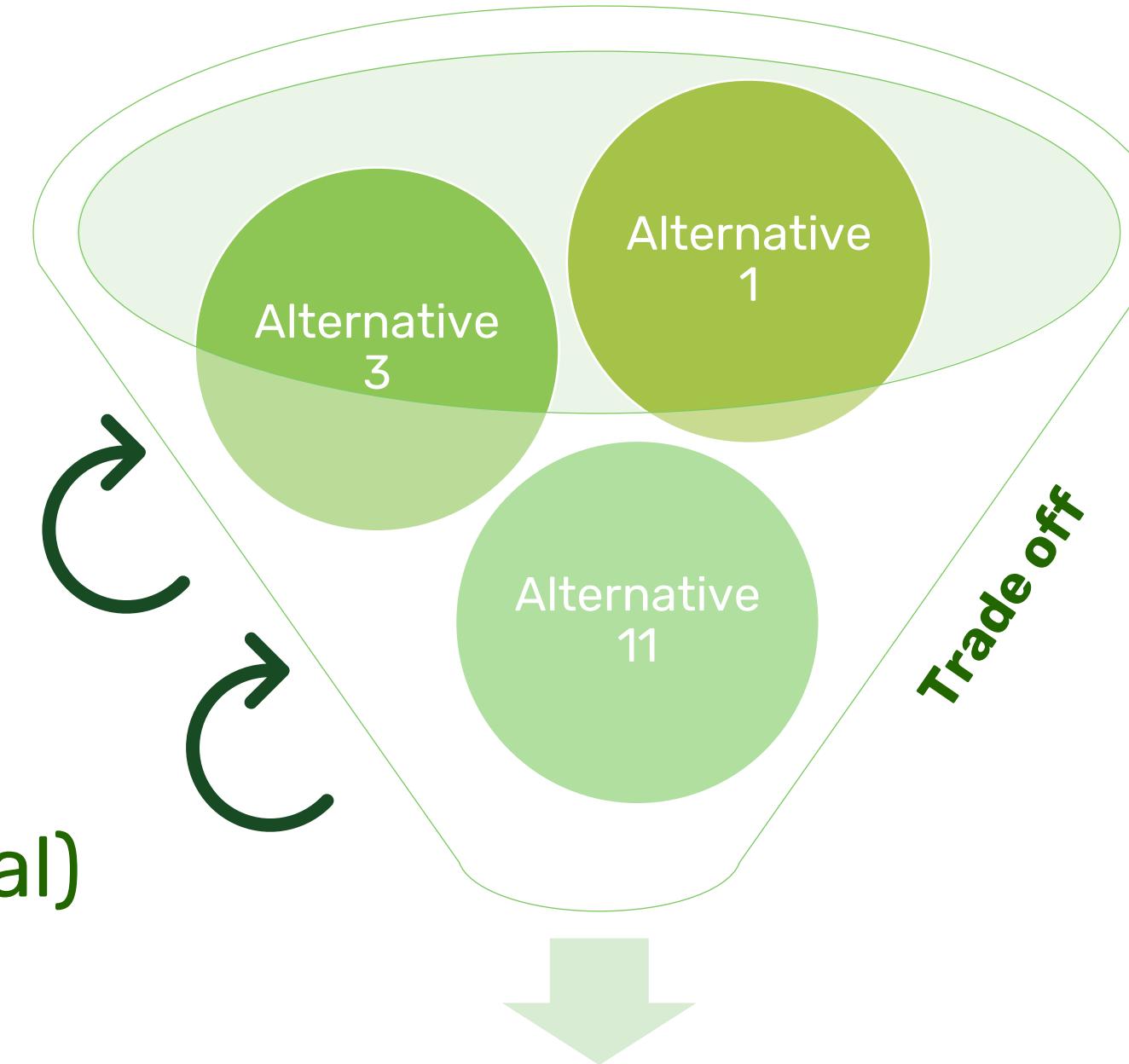
Work set-based

Iteration with

- Use cases
- Deselection criteria's*
- Boundary conditions
- Non negotiables (physics & legal)

**Note: You deselect from importunateness and trade off's. Common misconception is that requirements are fixed. Everything is negotiable except for physics and most often legal requirements (but the later also changes)*

Ensure fallbacks and robustness for requirement change

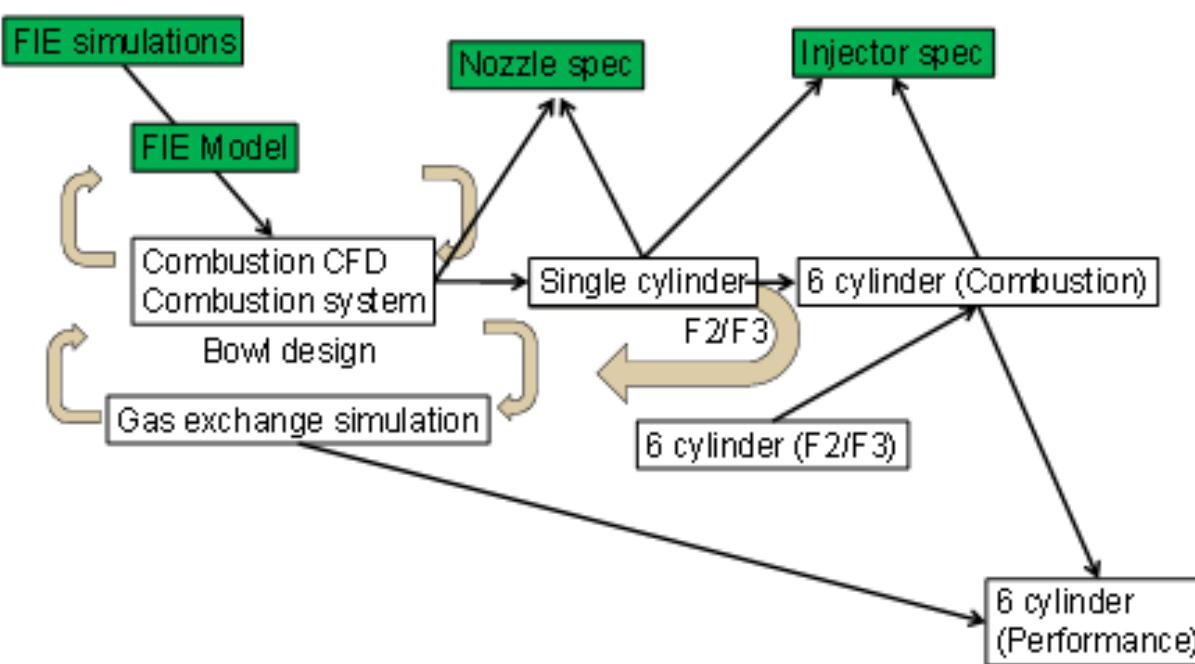


Mature multiple alternatives



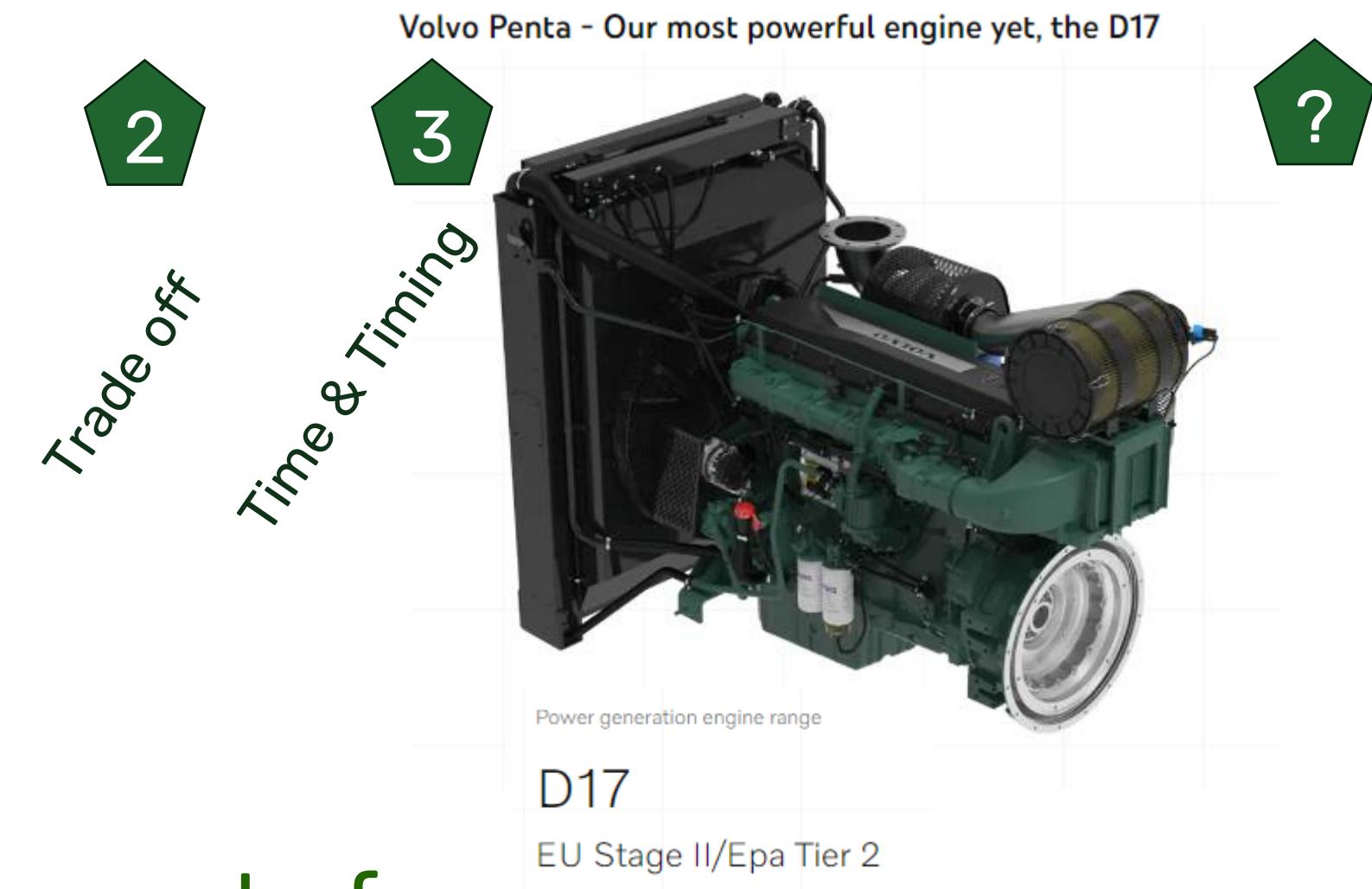
“Most powerful...” “Reduced fuel consumption...”

Project Logic (Phase 1)



Iterate & Trade off

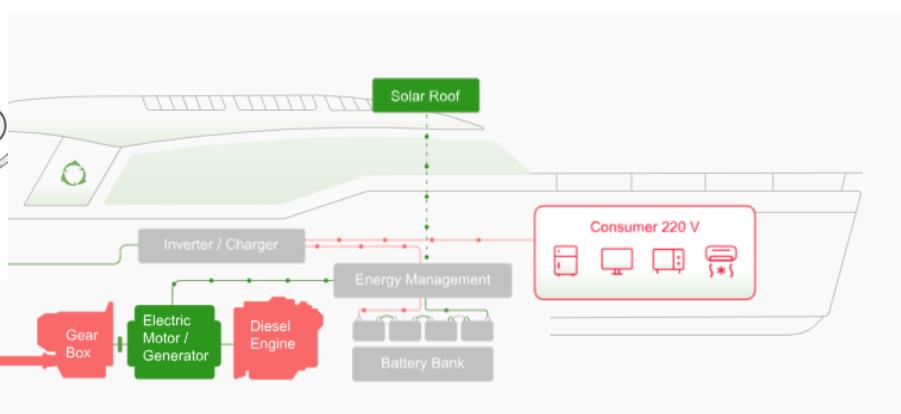
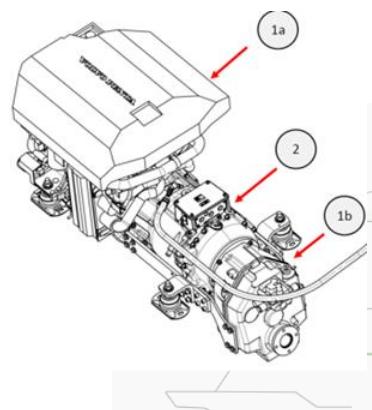
Development of a new combustion system



Decoupled plan and NO waterfall!

Time

- Mature technology/iterate
- Multiple alt. & **fallbacks**
- Stakeholders
- Customers



<https://www.greenlinehybrid.com/en/propulsion>

Timing

- Market
- Budget/funding
- Decision making
- TRL
- MVP

Volvo CE introduces a range of futuristic concepts: a serial-hybrid wheel loader



23
1049



"THE WASP"

A SUSTAINABLE POWER SOLUTION



P2565 Alternative Fuels

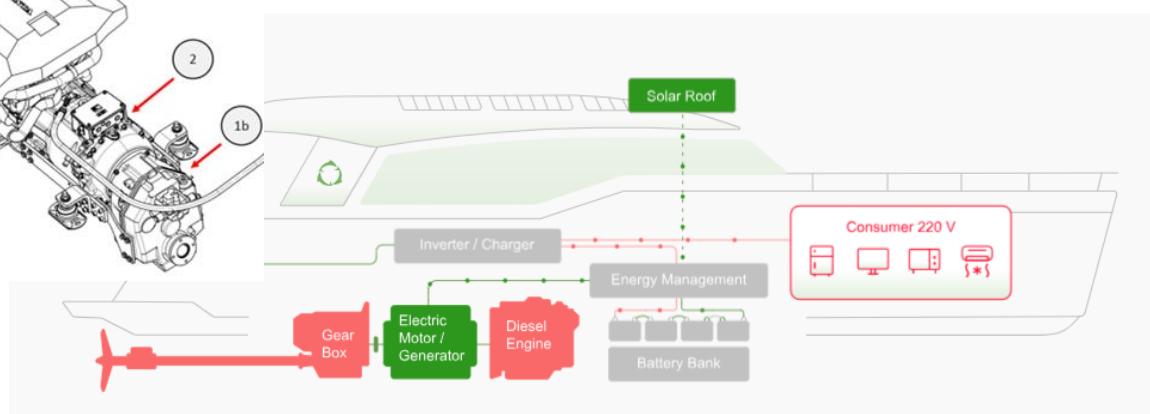
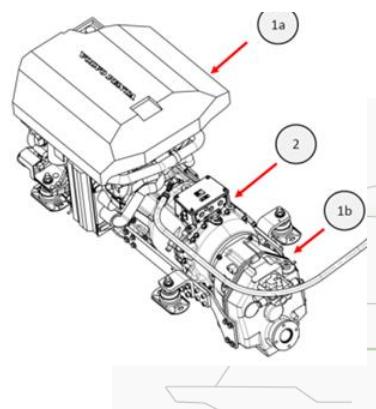


Decoupled plan and NO waterfall!

Volvo CE introduces a range of futuristic concepts: a serial-hybrid wheel loader



“Be persistent!”



<https://www.greenlinehybrid.com/en/propulsion>

“THE WASP”
A SUSTAINABLE POWER SOLUTION



P2565 Alternative Fuels

23
1049



Protium



Collaborate



Public/teamwork

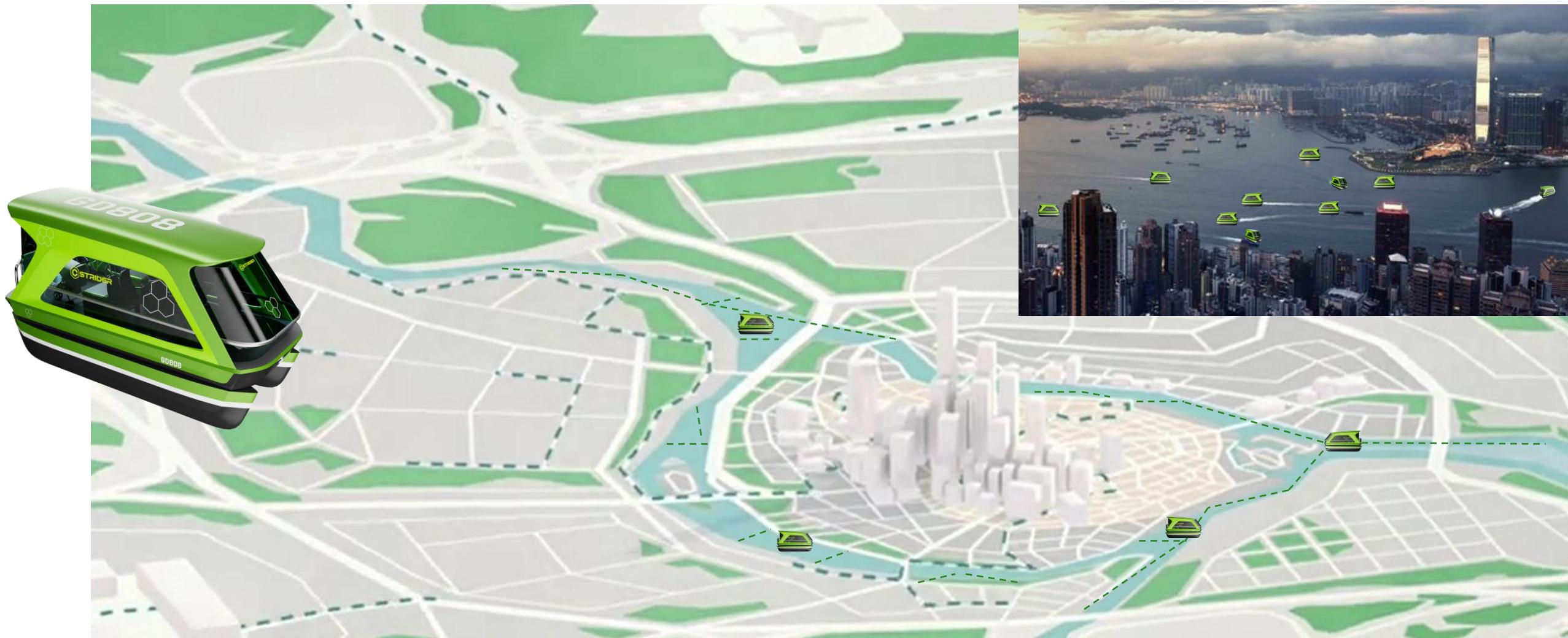
- Develop your strengths (USP)
- Co-work for leverage
- Shared risk
- “Fly-wheel concept”
- Followers/participants
- Share=>cost and marketing

Secretive/individual

- Military
- IP (limited in time)
- Personal
- Commercial agreements
- Keeping others key assets



Reclaiming waterways



Cstrider's smart transport system – closing the gap!



Only solutions
Fallbacks
Be persistent
“Fly wheel”
Share your vision
& collaborate





20XX

Thank you

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Incubator





Incubator

