

Going Farther: Engineering Design to the Next Level

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Heritage ...

- ✓ Fully capable
- ✓ Tactile
- ✓ Durable
- ✓ Robust
- ✓ Simple



... Ingenuity

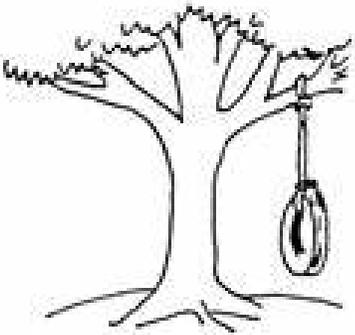
- ✓ Fully electric
- ✓ Digital
- ✓ Sustainable
- ✓ Aero
- ✓ Purposeful

Overview

- Understanding the Disconnect
- Understanding the Needs
- How to Solve What Seems Impossible?
- Implement a Strategic Pre-development Cycle



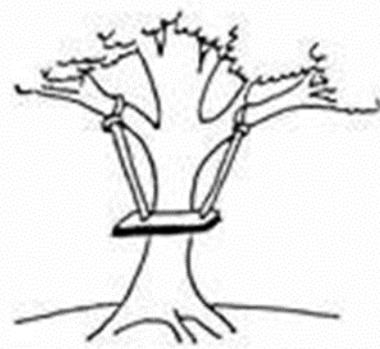
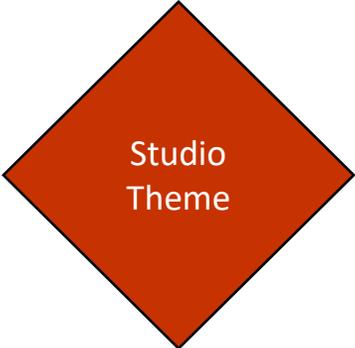
Understanding the Disconnects



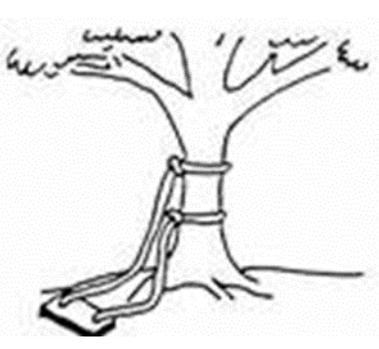
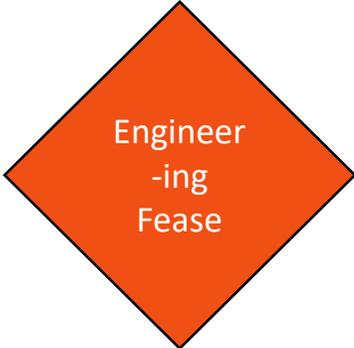
This is what NHTSA says is needed.



This is Studio DNA Theme.



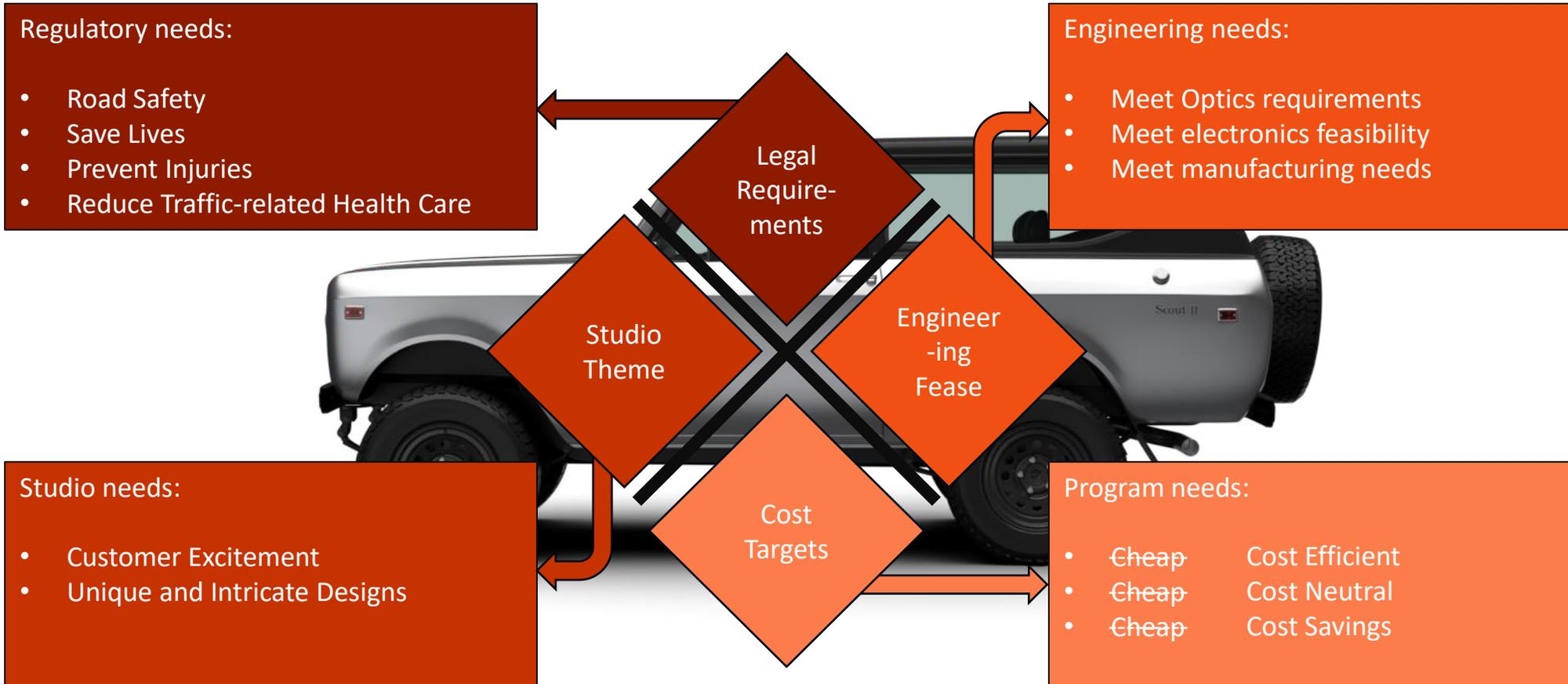
This is what Engineering says is feasible.



This is what the Program wants to pay for.



Understanding the Needs

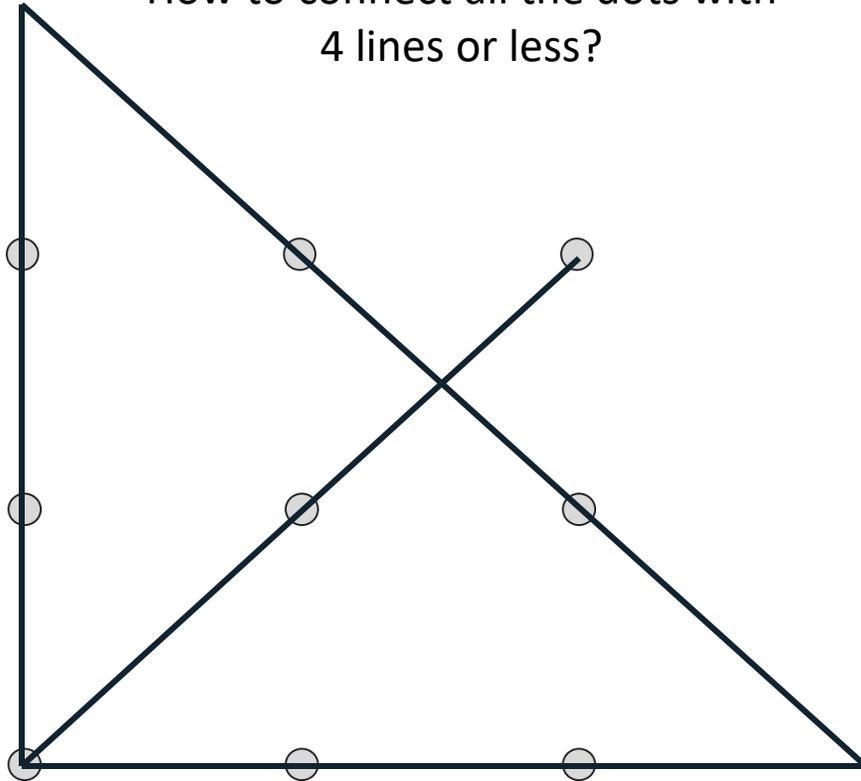


We Resolve These Competing and Conflicting Requirements by Developing a Cross (X) Functional

How to Solve What Seems Impossible?

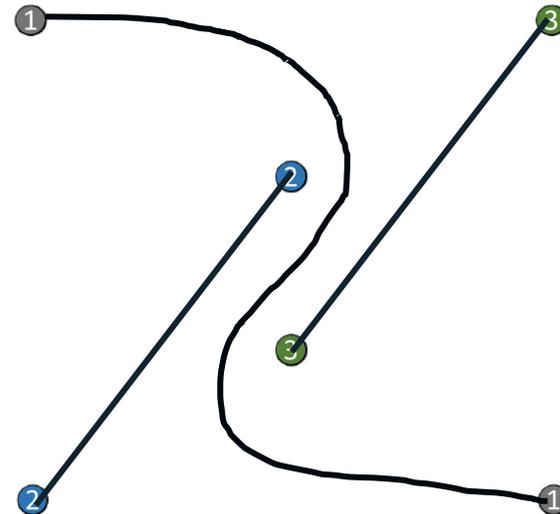


How to connect all the dots with 4 lines or less?



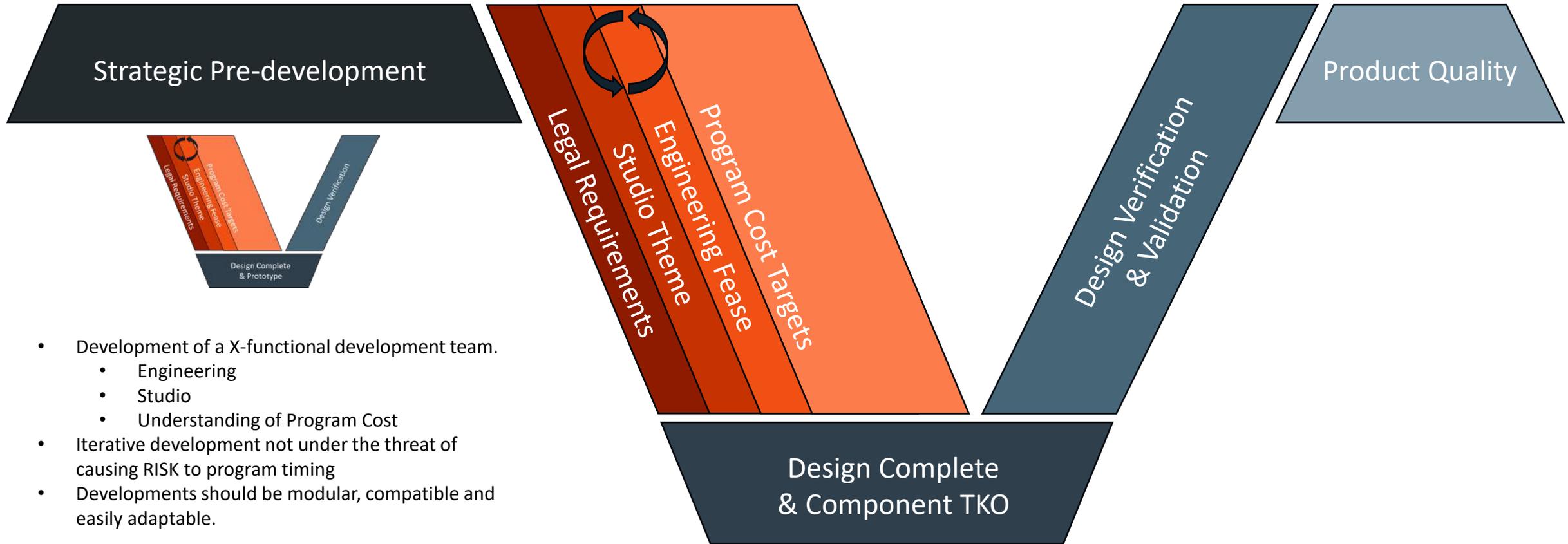
Be willing to think outside of the box.

How do you connect all the dots with lines without overlap?



Learn to read between the lines.

Implement a Strategic Development Cycle that Feeds into the Product Development Process



- Development of a X-functional development team.
 - Engineering
 - Studio
 - Understanding of Program Cost
- Iterative development not under the threat of causing RISK to program timing
- Developments should be modular, compatible and easily adaptable.

Final Thoughts

- Creating a strong crossfunctional team with more than just engineering is vital.
- The development of a strong relationship outside of the program will create strong synergies within the program.
- The way to reduce development time within the program is to increase development time outside of the program.
- By doing these things, we will be able to Engineer Design to the Next Level.



Be a Scout
Go Farther!!!

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