Crash Validation with Small Teams and Short Timelines

TELO

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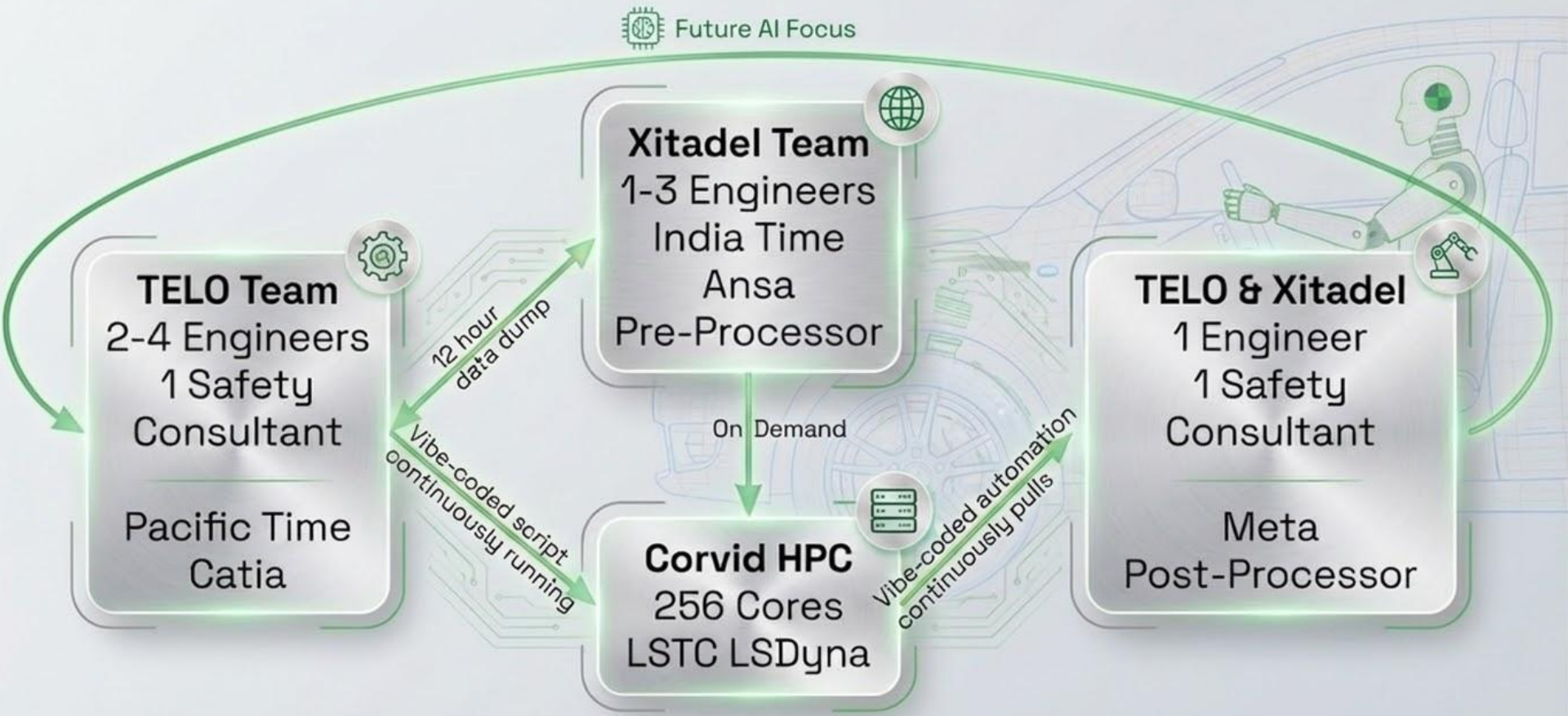
Battery & Safety Innovations Drive Never-Before Possible Form Factor

14 inch safety zone
not a 4 foot hood

50% more space
efficient battery

BIW Crash Test Workflow - Test results back every 20 minutes



Learnings

What Works

→ Claude Code is extremely valuable for automation, all MECEs should be using it

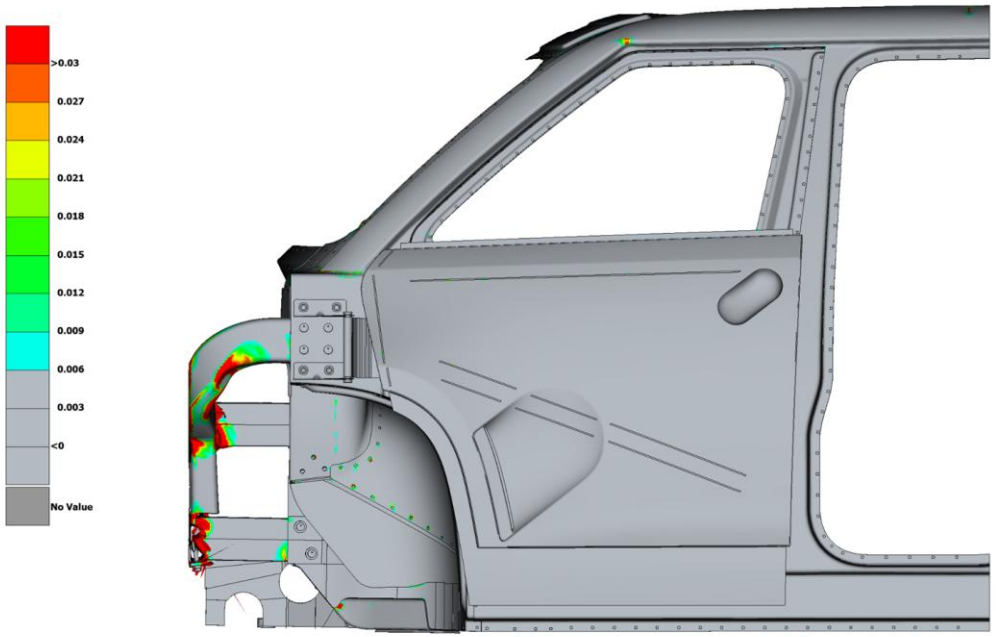
→ LS-Dyna d3 plots can be pulled as they're available, the run doesn't need to complete

What Can be Improved

→ Huge opportunity to train DNNs to interpret test results, suggest & implement changes

→ Meshing is still extremely time intensive, awaiting a very good tool for this

→ Really interested to try future AI-enabled surface CAD



Strategies for Moving Fast

- Small teams work best with small, fast tasks
  - SCRUM structure works great at keeping teams focused
- Leverage international time zones to double development speed
- All MECEs should have software experience
  - They themselves should automate all their “clicks” away
- Define your quasi-static milestones and execute only on those, adding detail, complexity, and speed as milestones are met
- Always rely on first-principles physics above “well that’s how so-and-so does it:
- “Don’t tell me that something’s impossible, tell me what has to be true to make it possible”