



**2022**  
Annual **INCOSE**  
international workshop  
**HYBRID EVENT**  
Torrance, CA, USA  
Jan 29 - Feb 1, 2022

Premier Systems Engineering Workshop

Pari Singh

# 5 lessons we can learn from the way other industries manage complexity

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[www.incose.org/iw2022/](http://www.incose.org/iw2022/)

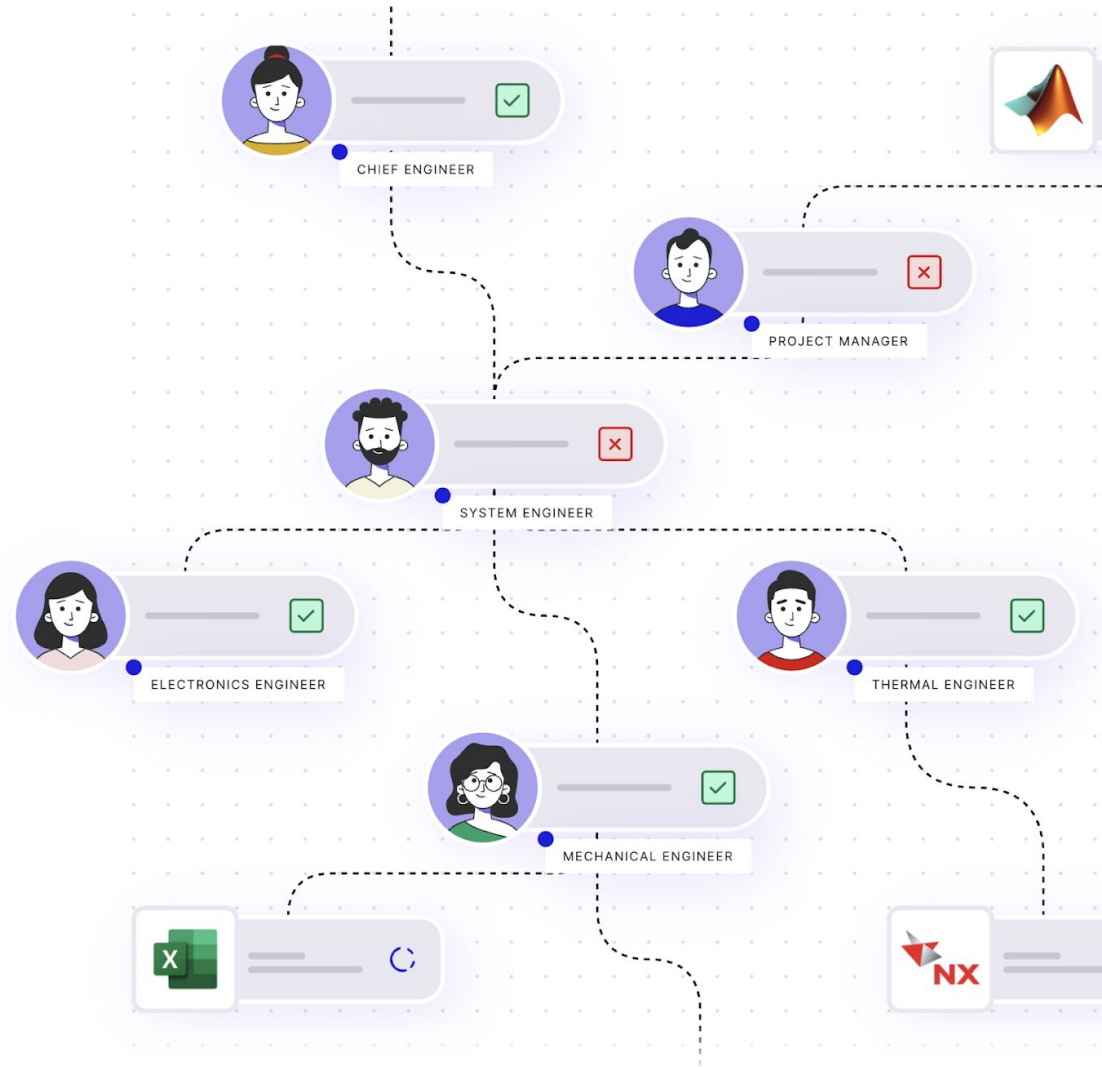




**Pari Singh**

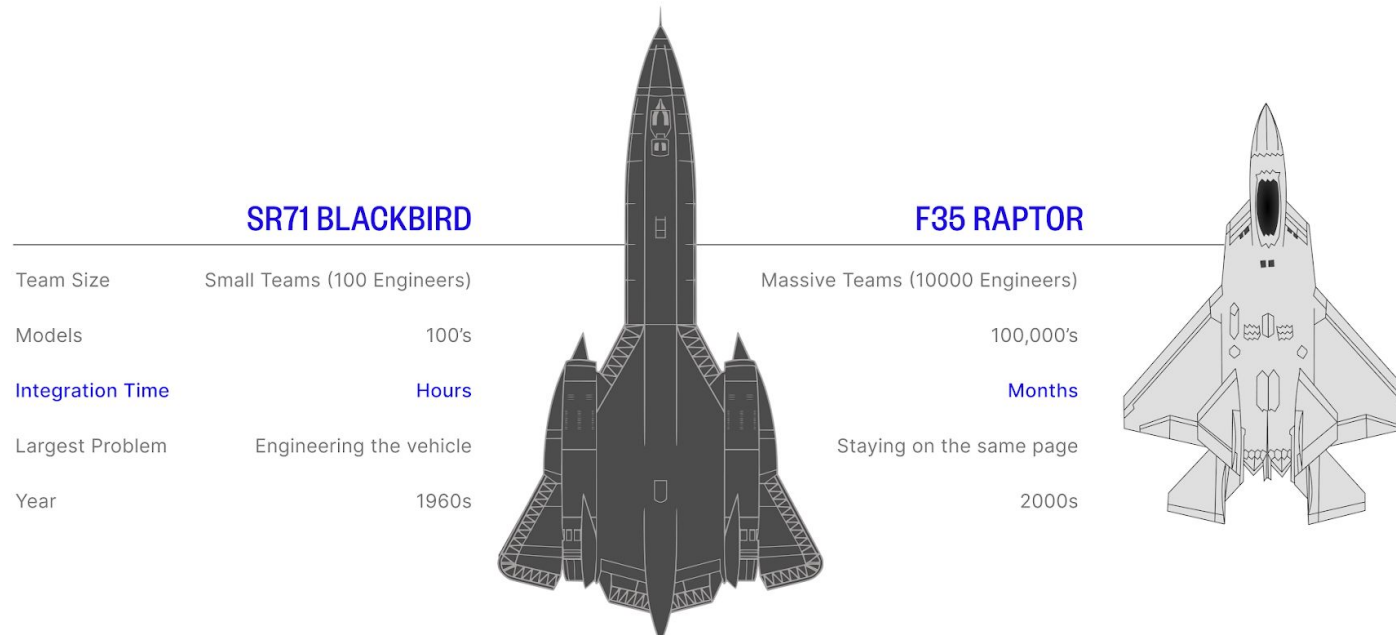
*CEO & Founder*

BAE Systems (Future Technologies Division),  
BP (Largest project in the world), Imperial  
College, Forbes 30 under 30



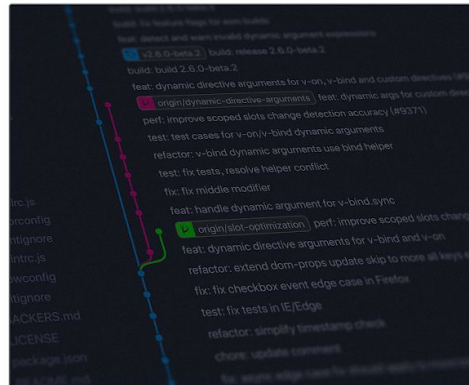


## WE ARE IN A NEW AGE OF SYSTEM ENGINEERING





## NOW OTHER INDUSTRIES ARE DOING PROJECTS ON A BIGGER SCALE THAN US



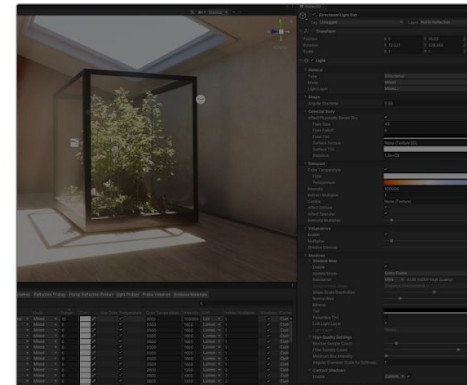
### SOFTWARE DEVELOPMENT

*Linux, Github*



### CHIP DESIGN

*M1*

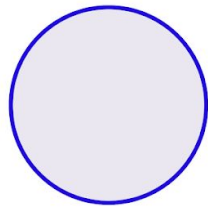


### GAMING AND ANIMATION

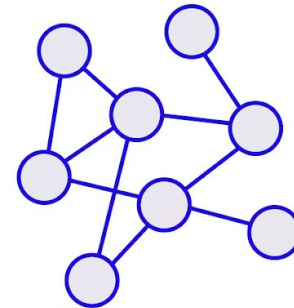
*Unreal Engine, Unity, Blender*



## UNDERSTANDING HOW THESE INDUSTRIES HAVE TRANSFORMED IS CRITICAL



MONOLITH



MICROSERVICES





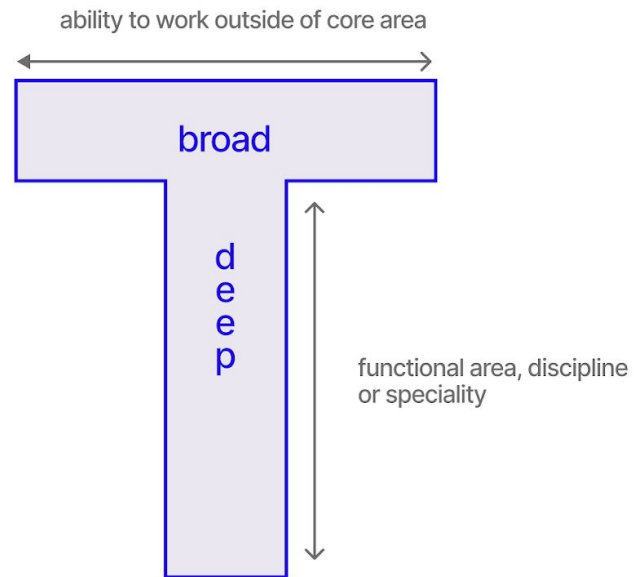
## 5 THINGS WE CAN LEARN FROM OTHER INDUSTRIES





**WE MUST MAKE SYSTEMS ENGINEERING A CRITICAL AND INTEGRATED PART OF DEVELOPMENT**





**EVERY ENGINEER MUST TAKE A SYSTEMS MINDSET**





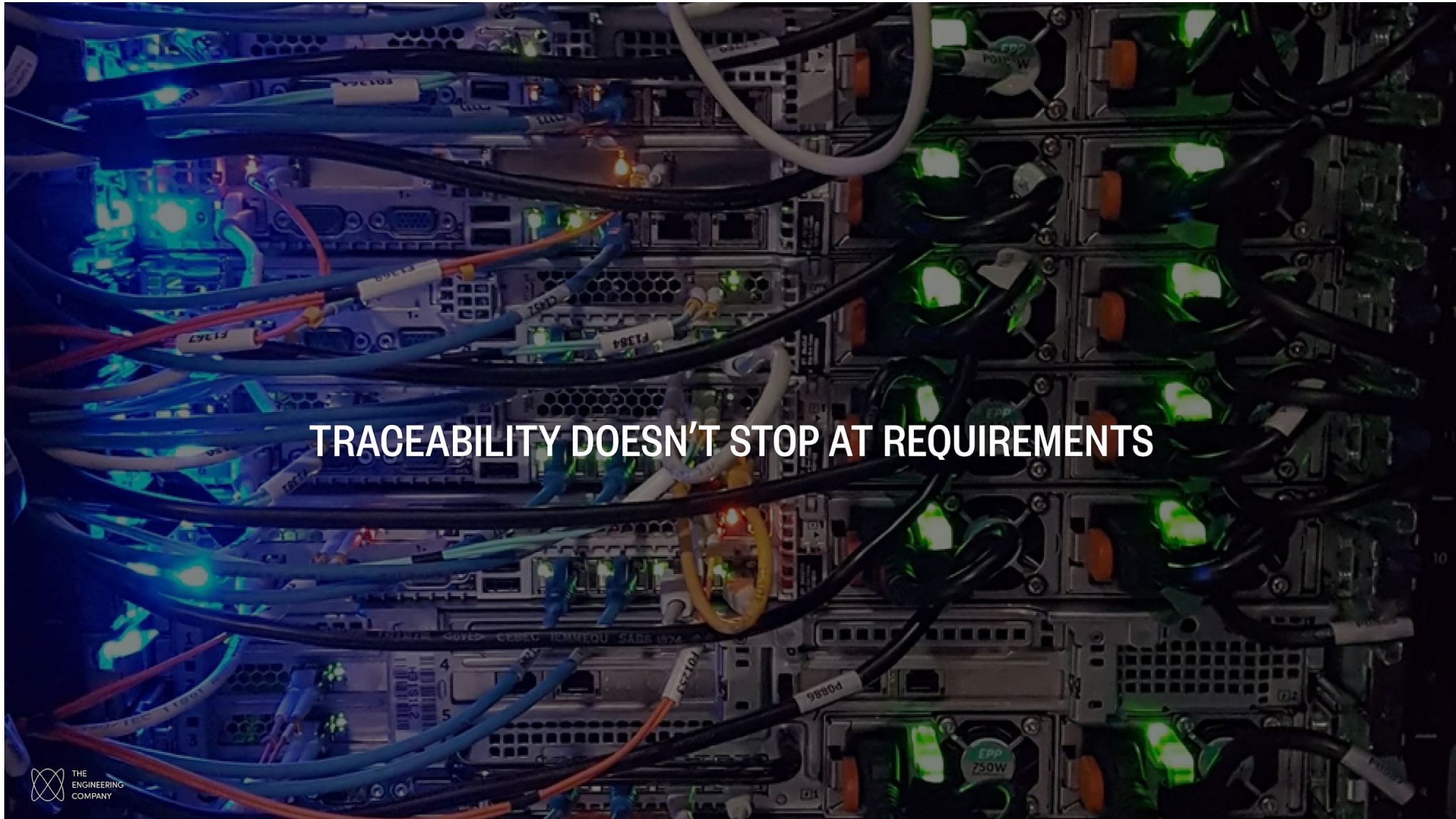
2016

2019

LEVERAGE DIGITAL TWINS END-TO-END



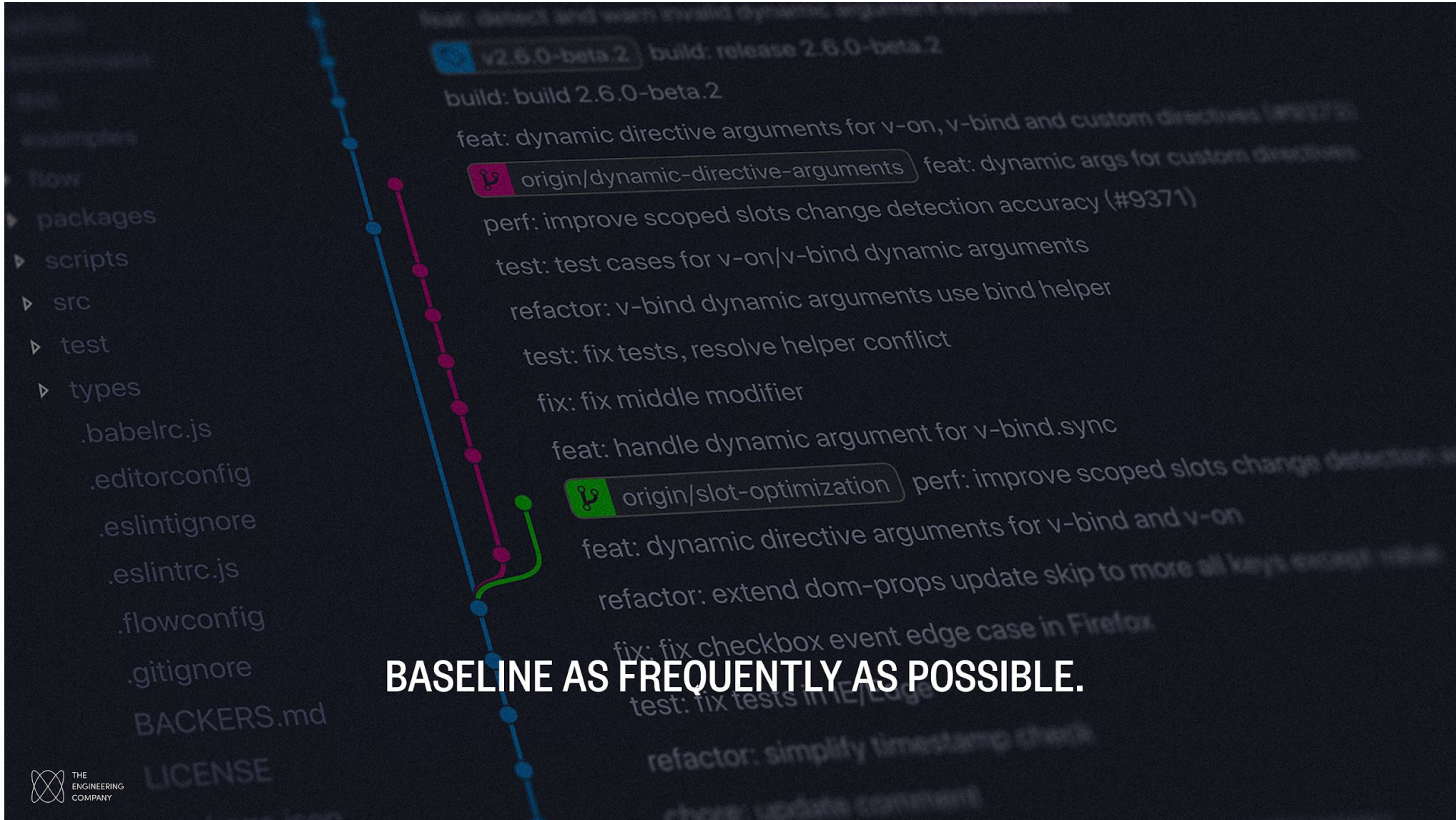




# TRACEABILITY DOESN'T STOP AT REQUIREMENTS











COME CHAT WITH US TO HEAR MORE STORIES AND  
SHARE YOUR VIEW



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