



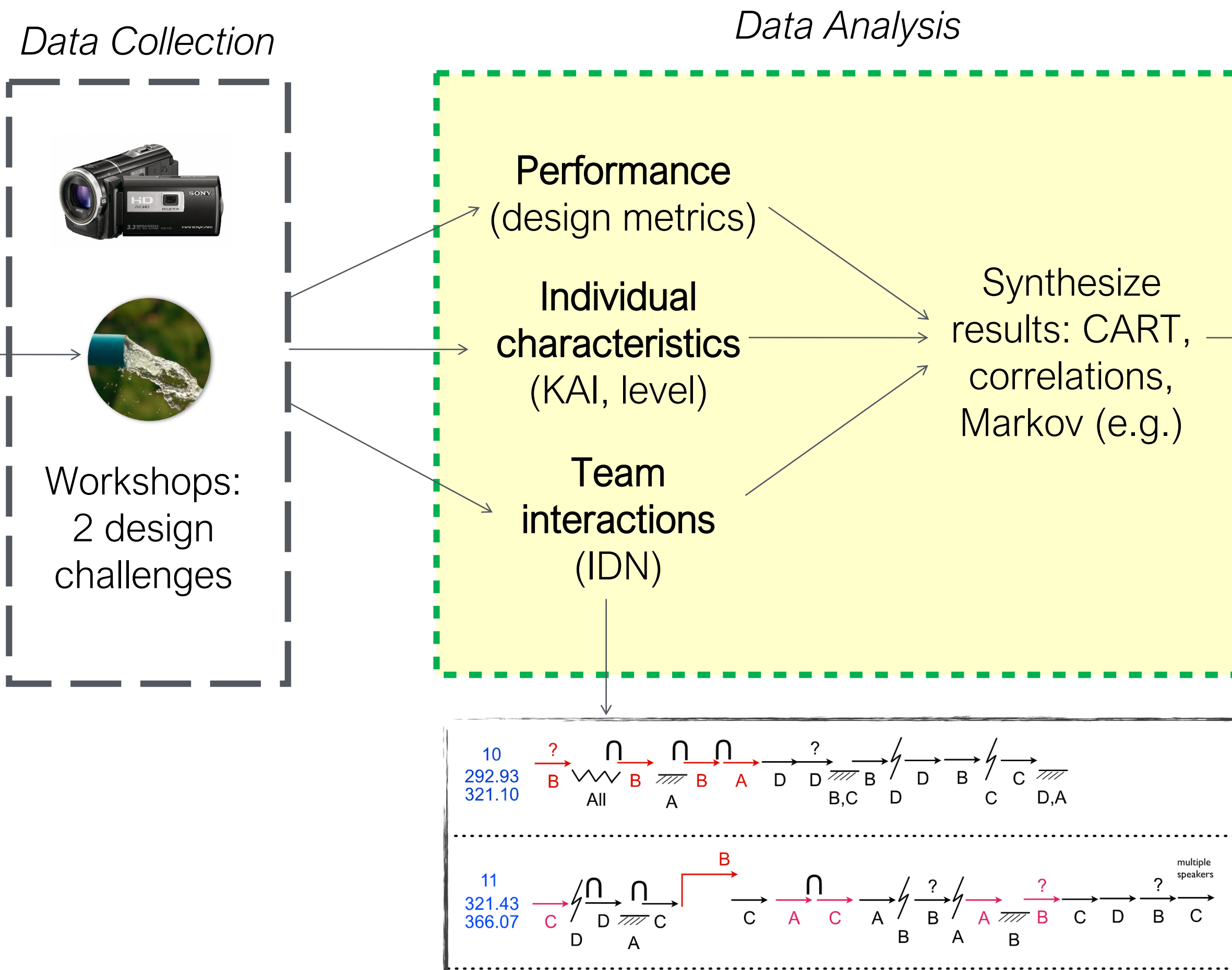
Mapping the High Performance Design Team Genome

EDSE Grants 635437 (*Penn State - Jablokow*) & 635386 (*Stanford – Leifer, Sonalkar, Mabogunje*)

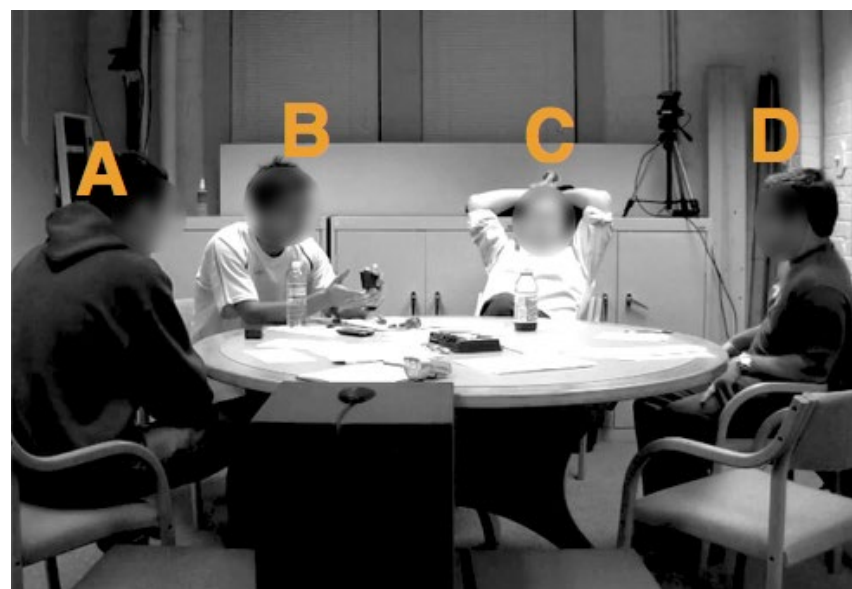
Our Vision:



Real-time diagnostics for team performance



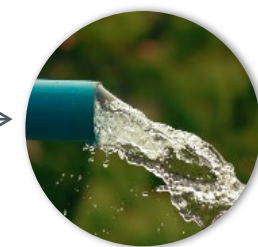
Subject Pool



11 organizations, 47 teams:

- Industry
- Start-ups (*NSF I-Corps*)
- Military (USAF)
- Academic

Data Collection



Workshops:
2 design challenges

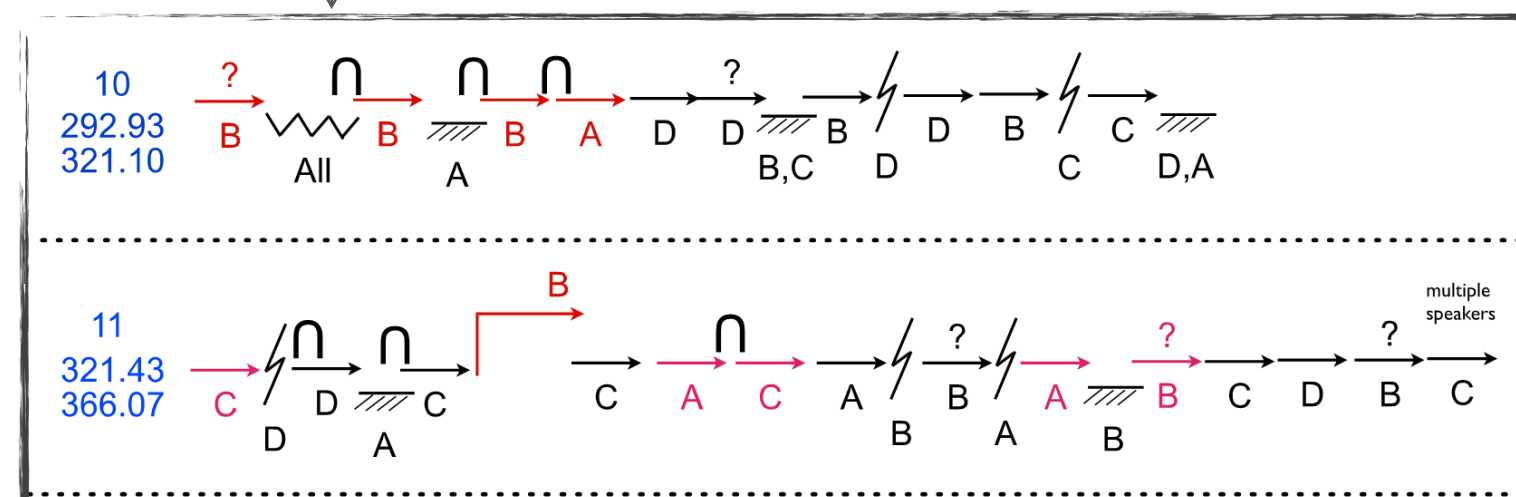
Data Analysis

Performance
(design metrics)

Individual
characteristics
(KAI, level)

Team
interactions
(IDN)

Synthesize
results: CART,
correlations,
Markov (e.g.)



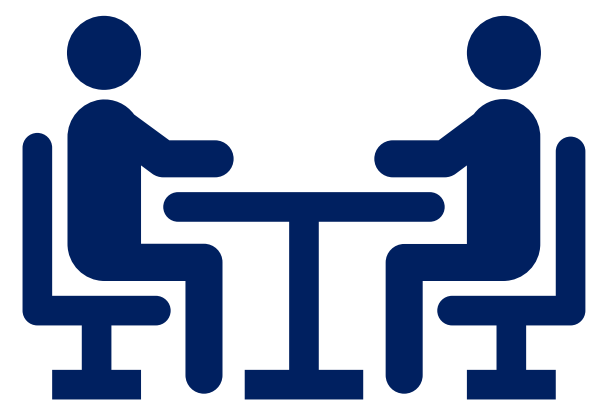
Mapping the High Performance Design Team Genome: Selected Findings

Cognitive style (KAI)



No
correlation

No
correlation



Correlation, but *ordering* and
focus of IDN sequences varied widely.



Interaction behaviors (IDN)

Performance (# of Ideas)