What are we trying to do?

- Open Source_specs
- Open Source_app
- Simulated_xAPI_data
What’s the purpose?

Simulate and Generate xAPI

Evaluate the Implementation

Benchmark and Stress Test TLA

Created by Lloyd Humphreys from Naun Project
Access to Testable Big xAPI Data

Will Inform DoD Learning & Training Modernization Policy
What is the problem?

A Missing Link for xAPI Adoption

Lack of Exemplar Testing and Evaluation Datasets
How is it done today?

Labor Intensive and High Cost

From Live Events

Or Created by Hand

Human Error and Lack of Scale
What is new in our approach?

- Learner Personae
- Non Player Characters (NPCs)
- Digital Twins
- Sim Modding
What's our solution?
How does it work?

State of DATASIM:
Alpha 2020
$\{ \text{member}: \{ \text{name}: \text{Bob Fakename}, \text{mbox}: \text{mailto:bob@example.org} \}, \{ \text{name}: \text{Alice Faux}, \text{mbox}: \text{mailto:alice@example.org} \}, \{ \text{name}: \text{Fred Eratz}, \text{mbox}: \text{mailto:fred@example.org} \}, \text{objectType}: \text{Group}, \text{name}: \text{trainees} \}$
Technology

- Alpha can generate 500,000+ xAPI statements per minute on commodity hardware
- All statements are aligned to xAPI Profiles
- All statements will conform to the behavior model established by the analyst (the NPC model)
- Simulations can be team-based to test data design serving group activity
- Individual simulations can be run in duplication for testing purposes
- For access to the recorded ADL TLA Working Group webinar on DATASIM, see: https://www.yetanalytics.com/research
Who cares?

DoD Learning and Training IT Stakeholders

- Increase Speed and Agility
- Increase Assurance
- Increase Innovation

Created by projecthayat from Noun Project
DATASIM mitigates against...

- **Cost** — by allowing ad hoc and repeatable data sets
- **Time** needed to identify risks and problems in existing and developing software and applications across the TLA
- **Efficiency** risks of manual simulated data design, including the “meaninglessness” problems of automated simulated data
How long will it take?
Thank you.
Shelly Blake-Plock
shelly@yetanalytics.com
@blakeplock

DATASIM is funded in partnership with the Advanced Distributed Learning Initiative at DoD