

CHALLENGE

- **Ad hoc** cybersecurity experimentation severely retards scientific progress
- **Use of one-off**, painstaking, and error-prone processes; **not shared** for reuse and validation
- **Lack** of repeatable, reproducible, and reusable processes and other artifacts

APPROACH

Technology

- **Hub** - Community collaboration portal for collecting and sharing experimental artifacts
- **Artifacts import** - Provide structure for shared artifacts & tools that facilitate content packaging for sharing
- **Artifacts storage** - Provide or link to persistence mechanisms for content and/or metadata
- **Artifacts discovery and export** - Provide tools that facilitate rapid content identification and extraction
- **Experiment design support** - Provide hub-integrated tools to help researchers design sound experiments using hub artifacts

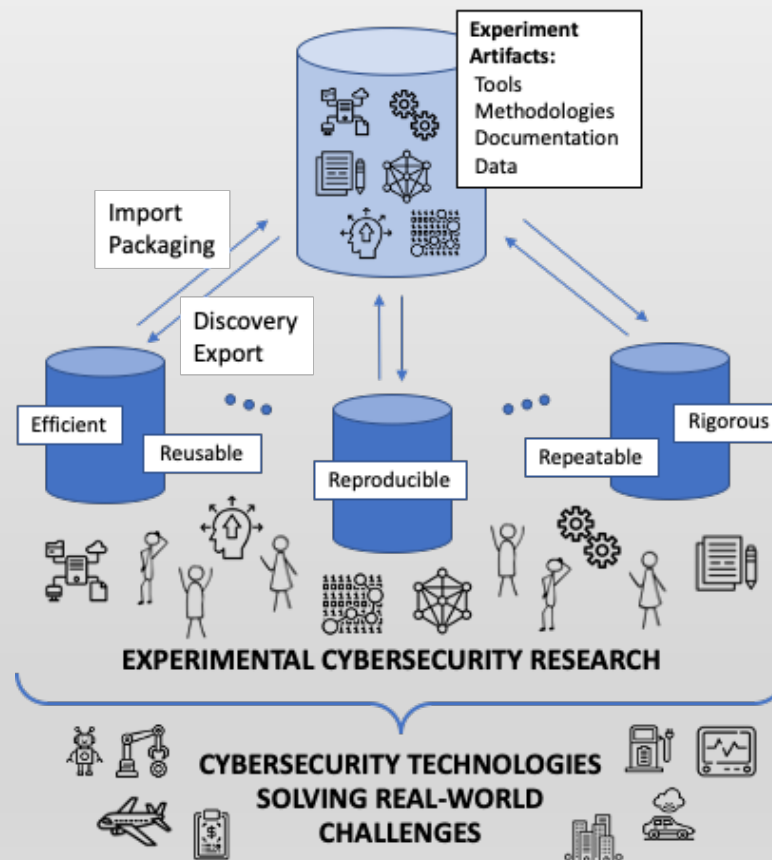
Data Collection

- **Curate content** - Build and use tools to harvest external artifacts to populate hub

Community Building

- **Outreach** - Recruit new collaborators from the community and keep participants informed
- **Engagement** - Actively involve community in requirements, design, and testing of hub

SEARCHCH COMMUNITY HUB



SCIENTIFIC IMPACT

- **Enable** the community to build upon the work of others or to compare solutions
- **Transform** the way cybersecurity experimental research is conducted
- **Advance** the knowledge, understanding, rigor, and practice of experimental cybersecurity research

BROADER IMPACT

- **Enable** new cybersecurity research and innovation
- **Lower** the barrier to underrepresented communities
- Increasing **metrics** over three years – contribution, adoption, publication, results, etc.

INVITATION TO IEEE S&P COMMUNITY

- **Actively participate** in planned SEARCHCH community engagement activities
- **Contribute to** and **make use of** experiment expertise and artifacts in the SEARCHCH hub

FOR MORE INFORMATION

- <https://searchch.cyberexperimentation.org/>