AN INTEROPERABILITY FRAMEWORK FOR TRIALS AND EXERCISES
TEST-BED INFRASTRUCTURE

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DRIVER+ OVERALL OBJECTIVES

To develop a **pan-European Test-bed for Crisis Management** for trialling solutions

**TRIALS**
Poland, France, Austria, The Netherlands

**FINAL DEMO**
Poland/Italy

To develop a **comprehensive Portfolio of Crisis Management Solutions**

To facilitate a **shared understanding** in Crisis Management across Europe
TEST-BED TRAILING
MAIN CONCEPTS & COMPONENTS
TECHNICAL REQUIREMENTS

• Focused on the Crisis Management (CM) domain
• Facilitating information exchange between CM applications & simulators
• Understandable & easy connectivity
• Tools for supporting trials & exercises
• Freely available & open-source (MIT license)
**TECHNICAL DESIGN AND IMPLEMENTATION**

- Using Apache Kafka with AVRO messages
  - Widely used with high message throughput
  - Easily run in the cloud using Docker
- Adapters created in Java, C#, JavaScript, Python and REST endpoint
- Including all kinds of support tools for running trials and exercises
LIMITATIONS

- Time synchronisation between simulators is very simple
- Ownership between simulators is lacking
WHY NOT HLA?
A COMPARISON

- HLA tooling is expensive for CM organisations & the community of practitioners is small
- Java, C++ & C# adapters
- Steep learning curve, long implementation time
- CM domain has different set of requirements & standards
- CM simulators hardly support HLA
DRIVER+ EMBRACES OPEN SOURCE

49 REPOSITORIES AT HTTPS://GITHUB.COM/DRIVER-EU
THANK YOU.
ANY QUESTION?
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