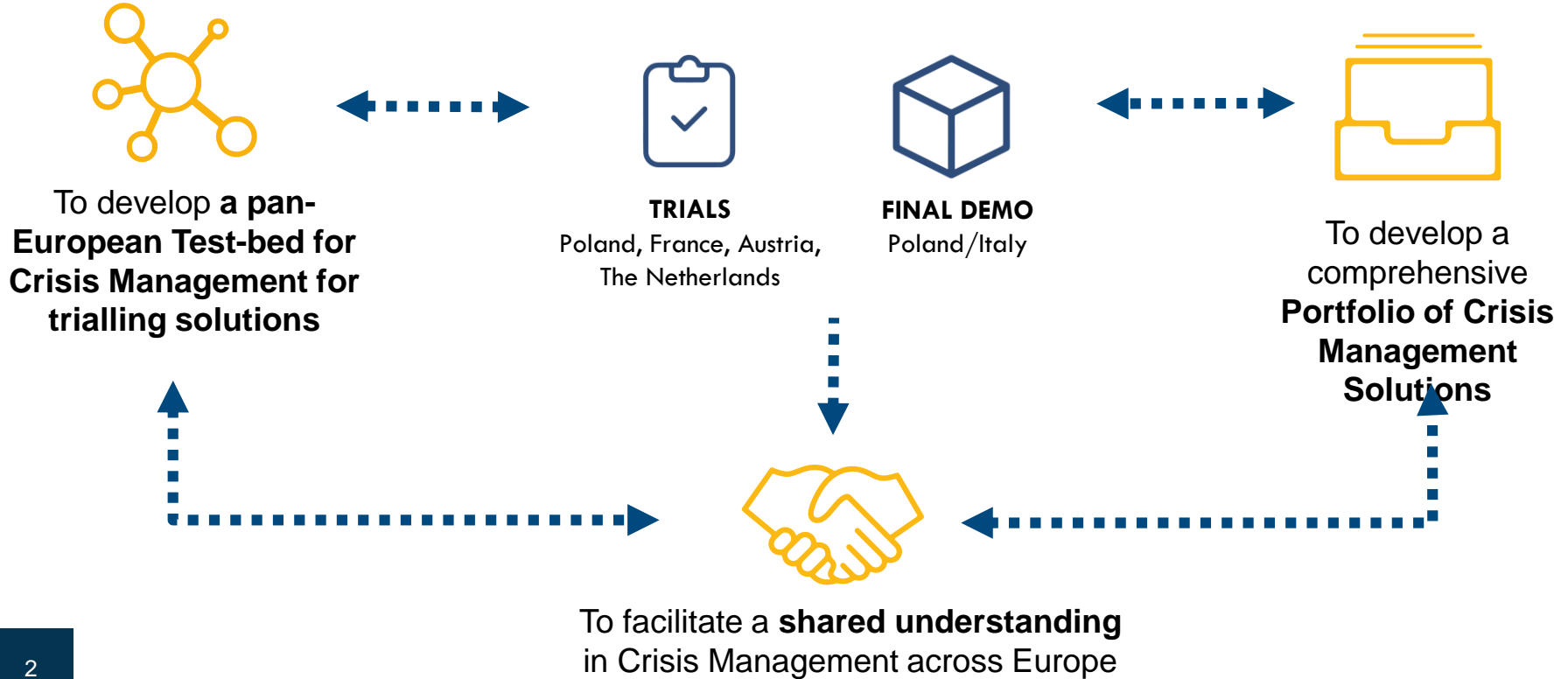


AN INTEROPERABILITY FRAMEWORK FOR TRIALS AND EXERCISES

TEST-BED INFRASTRUCTURE

DRIVER+ OVERALL OBJECTIVES





TEST-BED TRAILING

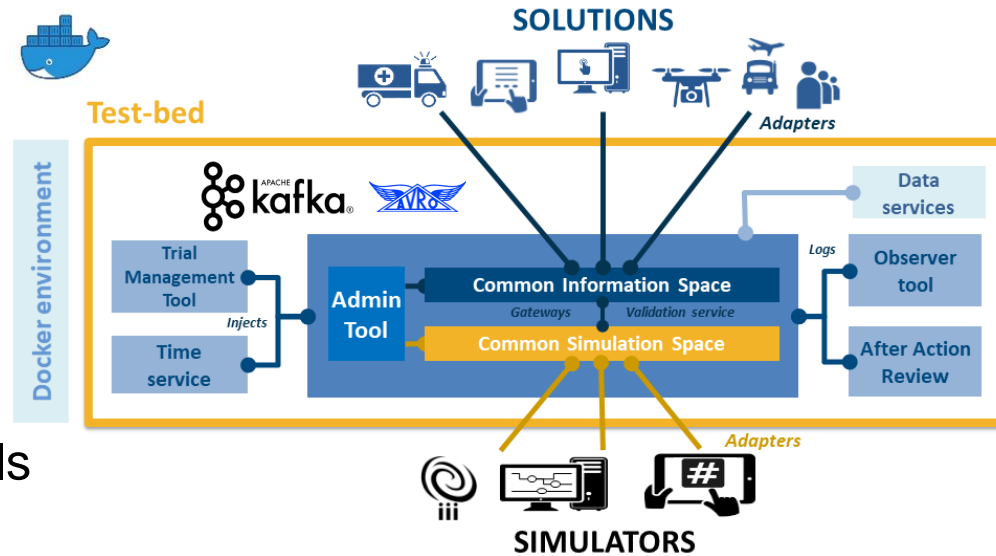
MAIN CONCEPTS & COMPONENTS

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

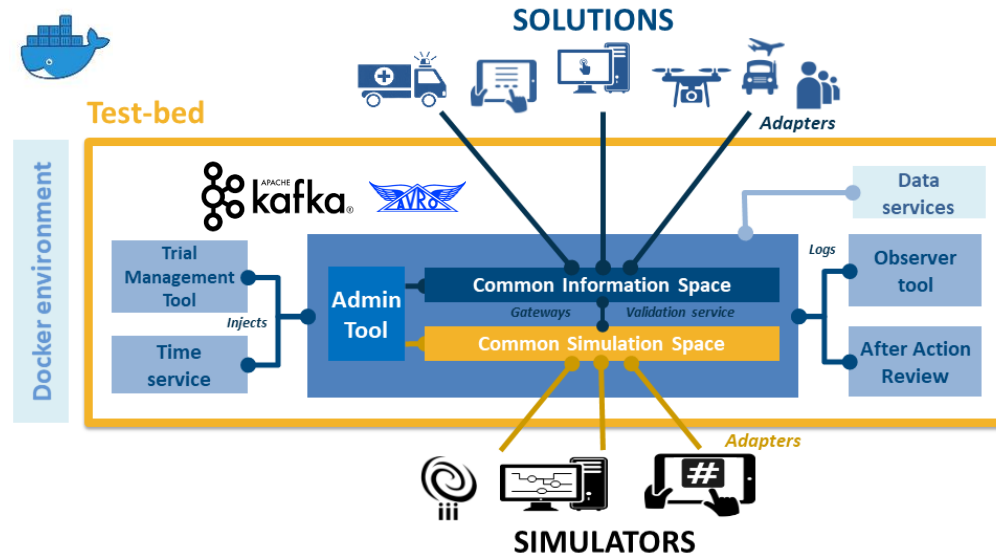
- Using Apache Kafka with AVRO messages
 - Widely used with high message throughput
 - Easily run in the cloud using Docker
- Adapters created in Java, C#, JavaScript, Python and REST endpoint
- Including all kinds of support tools for running trials and exercises



TECHNICAL DESIGN AND IMPLEMENTATION

LIMITATIONS

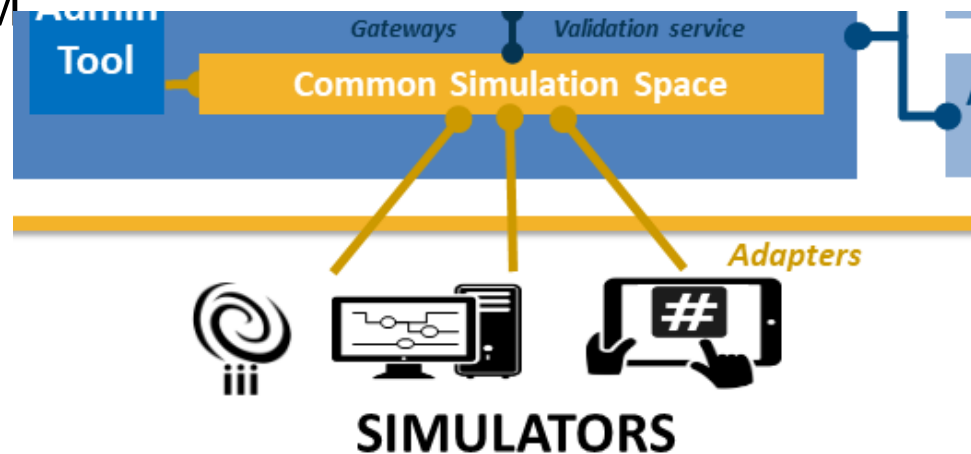
- Time synchronisation between simulators is very simple
- Ownership between simulators is lacking



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](https://github.com/DRIVER-EU)

GitHub, Inc. [US] | <https://github.com/DRIVER-EU>



This organization

Search

Pull requests

Issues

Marketplace

Explore



driver-project.eu

DRIVER+

This project has received funding from the EU FP7 under grant agreement no 607798.

Europe

<http://driver-project.eu/>

Repositories 29

People 20

Teams 2

Projects 0

Settings

Search repositories...

Type: All

Language: All

Customize pinned repositories

New

test-bed

DRIVER+ WP923 Test-bed infrastructure.

kafka

simulation

management

test-bed

crisis

★ 1

MIT

Updated a minute ago



Top languages

TypeScript ● Java ● JavaScript

C# ● HTML

Most used topics

Manage

kafka

test-bed

adapter

THANK YOU.
ANY QUESTION?



CONTACT

REACH US



@DRIVER_project



Groups:
DRIVER Project



DRIVER Project

More information about the project - coordination@projectDRIVER.eu
Interested in collaborating with us? - cooperation@projectDRIVER.eu
Communication and media contact communication@projectDRIVER.eu



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement n° 607798. The information and views set out in this presentation are those of the author(s) and do not necessarily reflect the official opinion of the European Union



driver-project.eu