

# **What is Eiffel?**

## **And why should I care?**

**The era of small-scale software is over**

# **Eiffel Summit 2023.1**

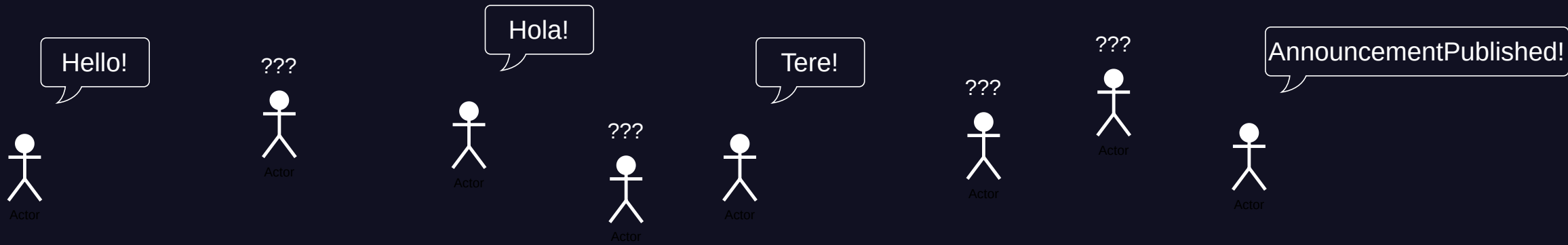
**What is Eiffel and why should I care?**

**Erik Sternerson, doWhile / Volvo Cars**

# **In this talk**

- **What is the purpose of Eiffel?**
- **What is Eiffel?**
- **Why should I care?**



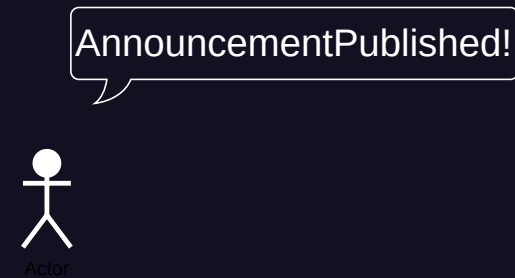
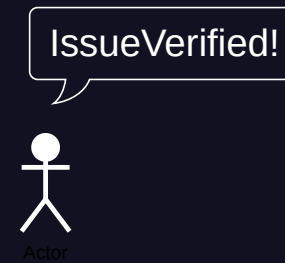
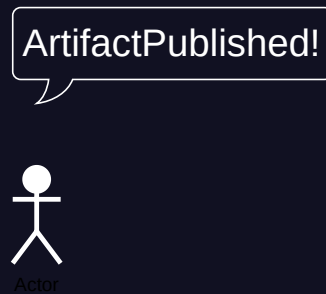
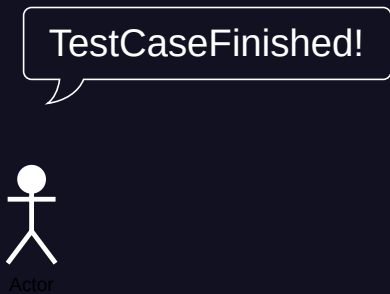


# A common language





# Observability



# Observability answers:

- What have we built?
- What changes are included?
- How did we test the builds?
- What is its quality?
- Are we ready to release?



# Interoperability



# **Interoperability provides:**

- I know what just happened**
- I know what it happened to**
- I know what the outcome was**
- I know where to find more information**
- I can decide the next action**

**What IS Eiffel?**

**The Eiffel crash course :)**

# Three aspects:

- **An event specification**
- **A set of SDKs and tools**
- **A community**

**A defined set of events**

# Event categories:

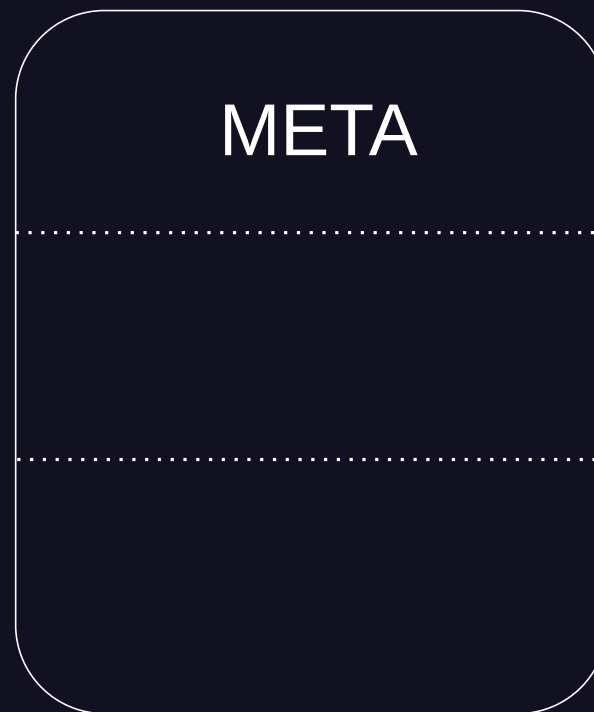
- **Source Changes**
- **Packaging**
- **Verification**
- **Deployment**
- **Flows**

# Event layout



# Event layout

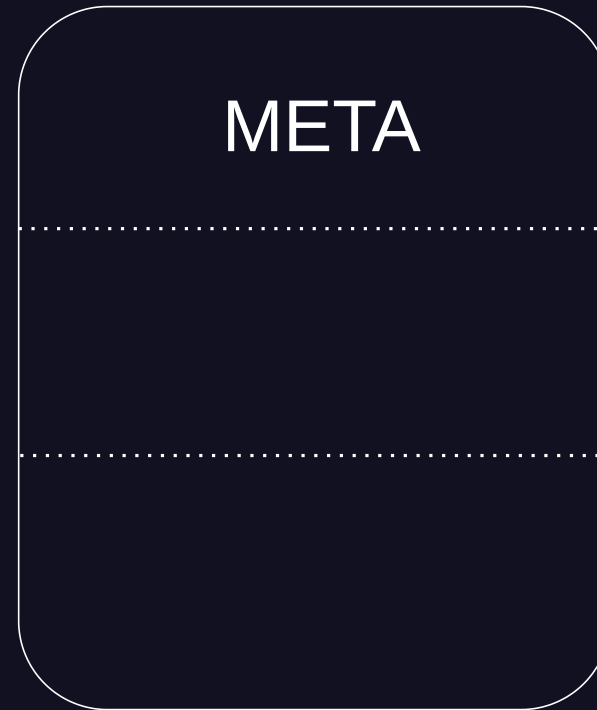
- **Meta: About the event**





# Event layout meta

- **Event type and version**
- **Identifier (UUID)**
- **Source**
- **Security**

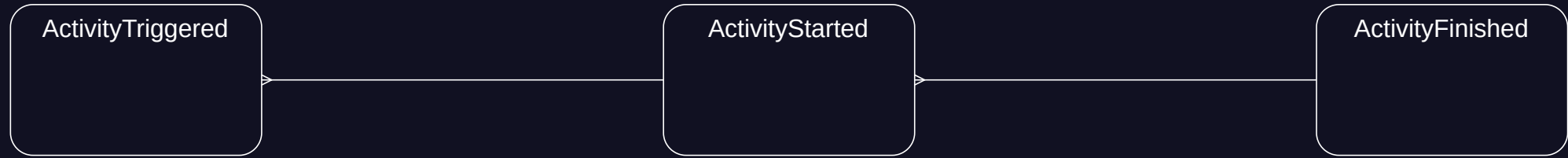


# Event layout

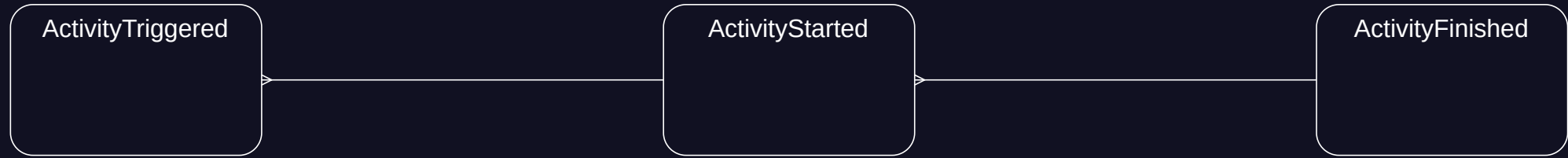
- **Meta: About the event**
- **Links: Related events**



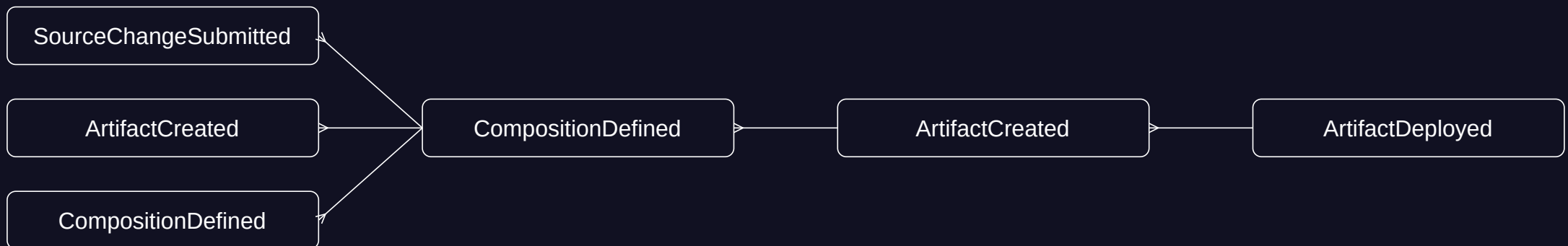
# Links



**"Same type" / update links**

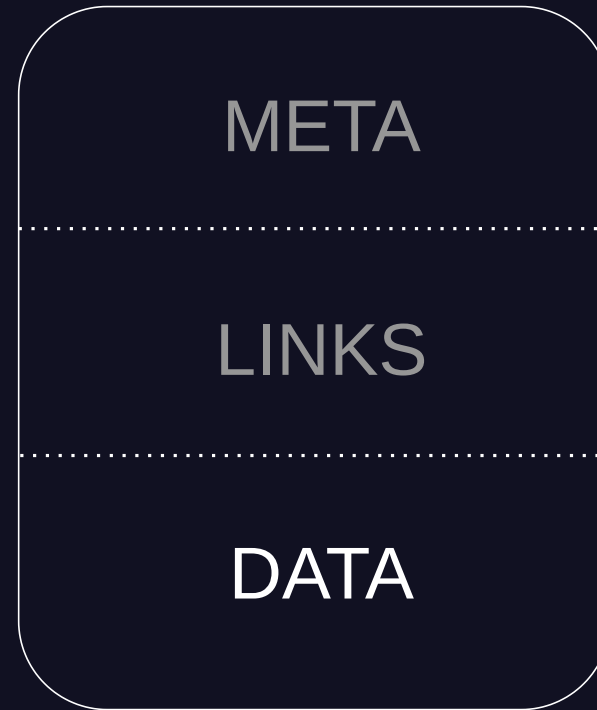


# "Different type" / association links



# Event layout

- **Meta: About the message**
- **Links: Related events**
- **Data: About the entity**

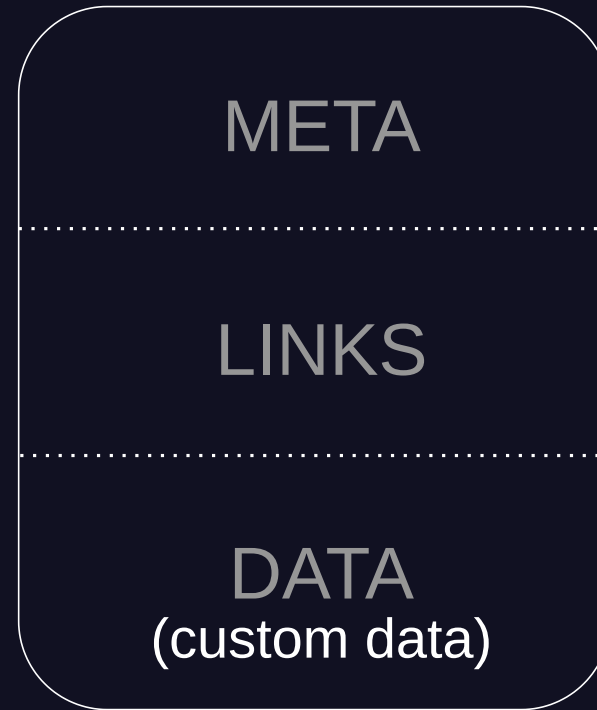


# Event data

- **Specific to event type**
- **ActivityTriggered: Name of activity**
- **ActivityStarted: URL to live logs**
- **ActivityFinished: Outcome**
- **Data + Links = Complete picture**

# Event layout

- **Meta: About the message**
- **Links: Related events**
- **Data: About the entity**
- **Custom data: Your stuff!**





# JSON

```
1  {
2      "meta": {
3          "type": "EiffelActivityFinishedEvent",
4          "version": "3.3.0",
5          "time": 1686484125170,
6          "id": "52691e33-6778-4482-b909-2ea98d0071a9"
7      },
8      "links": [
9          {
10             "type": "ACTIVITY_EXECUTION",
11             "target": "25f4a098-5a23-4e01-9ebc-2b9518d89e63"
12          }
13      ],
14      "data": {
15          "outcome": {
16              "conclusion": "SUCCESSFUL"
17          },
18          "customData": [{"track": "AY12"}]
19      }
20  }
```

```
1  {
2      "meta": {
3          "type": "EiffelActivityFinishedEvent",
4          "version": "3.3.0",
5          "time": 1686484125170,
6          "id": "52691e33-6778-4482-b909-2ea98d0071a9"
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8      "links": [
9          {
10             "type": "ACTIVITY_EXECUTION",
11             "target": "25f4a098-5aa3-4e02-aebc-2b9518d89e63"
12         }
13     ],
14     "data": {
15         "outcome": {
16             "conclusion": "SUCCESSFUL"
17         },
18         "customData": [{"track": "AY12"}]
19     }
20 }
```

**Why should I care?**

**Because Eiffel is tried and tested**

**Used for a long time, often, and in production:**

- Started in Ericsson 2012 - 2.5M+ evs/day**
- Open source since 2016 - Active community**
- Driven by a technical committee (currently Axis and Ericsson)**

# Tracing and Messaging



***What about CDEvents?***

# **CDEvents for Eiffelers**

- Started 2021 as part of CDF (LF)**
- Lots of Eiffel involvement**
- Broader scope, more actors involved**
- Incubating, work in progress**
- Translation service for Eiffel exists.**



***CDEvents session tomorrow 10.30***

**Because Eiffel has a large ecosystem  
of tools**

**Because Eiffel continues to evolve**

**Thank you!**

**Q&A**