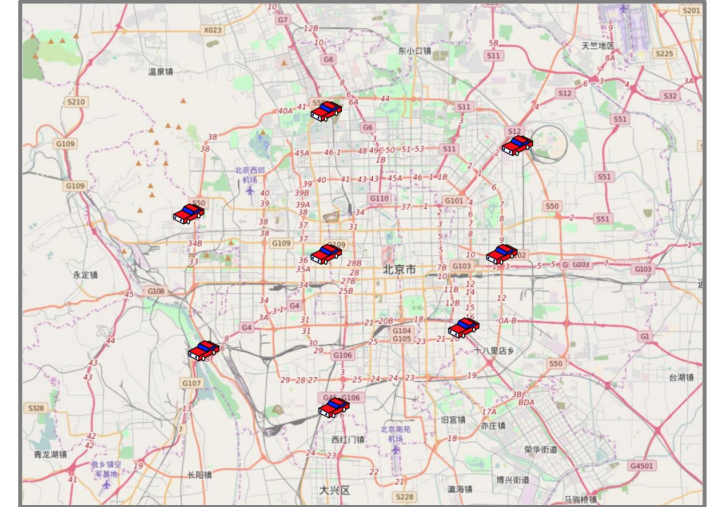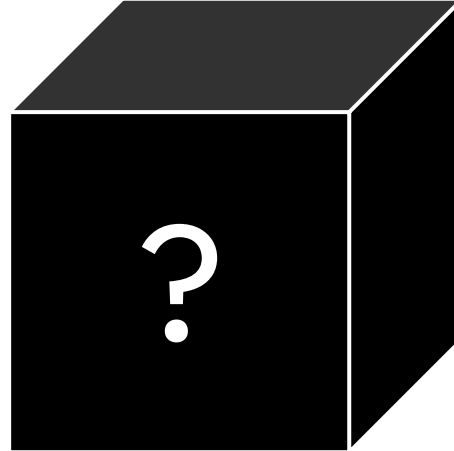# STREAM PROCESSING

FOR SPATIALLY-DISTRIBUTED IOT SYSTEMS

Mategka, Cristino, Ginter, Glaser, Pisco

SO, WHAT'S THE TASK?

Speeding incidents
- Taxi 42

Area violations
- Taxi 0815
- Taxi 1337
- Taxi 42

Currently driving taxis
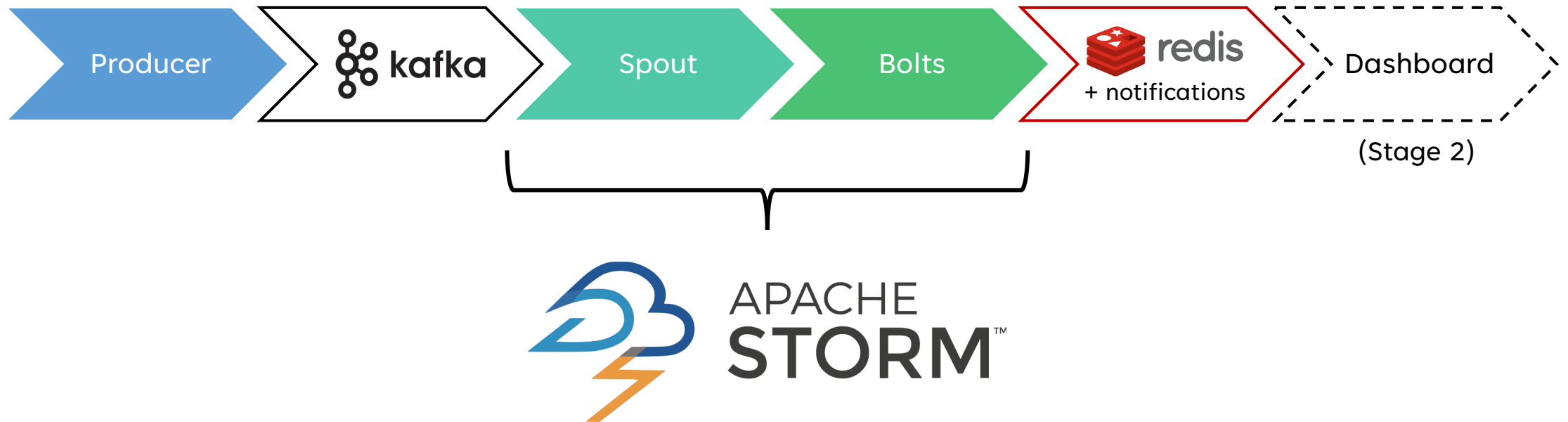
23

Overall distance of all taxis

666.66 km

STREAM PROCESSING

- Real-time processing

  - Continuous aggregation

  - Results immediately available

- highly scalable

- many integration options

ROUGH TOPOLOGY OUTLINE

SOURCES

TAXI ICON

Taxi Icons created by Freepik - Flaticon

https://www.flaticon.com/de/kostenlose-icons/taxi

APACHE KAFKA LOGO

By Apache Software Foundation - Vectorised by Vulphere based from https://www.apache.org/logos/, Apache License 2.0, https://commons.wikimedia.org/w/index.php?curid=73974563

APACHE STORM LOGO

By ™/®The Apache Software Foundation - Vectorised and modified by Vulphere from https://www.apache.org/logos/res/storm/storm.pdf, Apache License 2.0, https://commons.wikimedia.org/w/index.php?curid=103761369
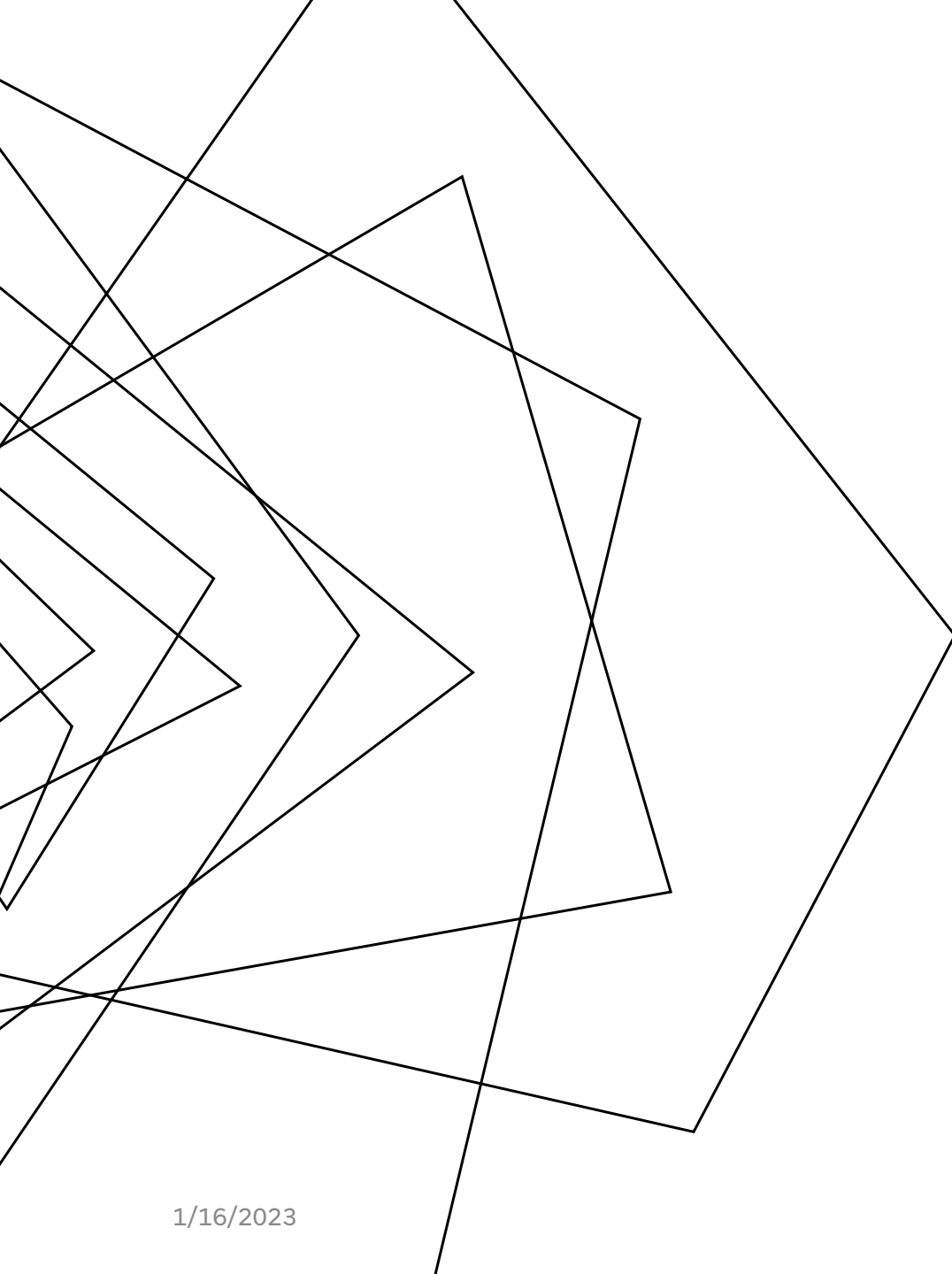
REDIS LOGO

By Carlos Prioglio created the logo for the copyright owner Salvatore Sanfilippo, lead developer of Redis. - http://redis.io/images/redis-logo.svg, Fair use, https://en.wikipedia.org/w/index.php?curid=40127986

NOW: A QUICK DEMO