

Event streaming applications with Kafka Streams, Spring Kafka and Actuator



Ko Turk Developer @ adesso



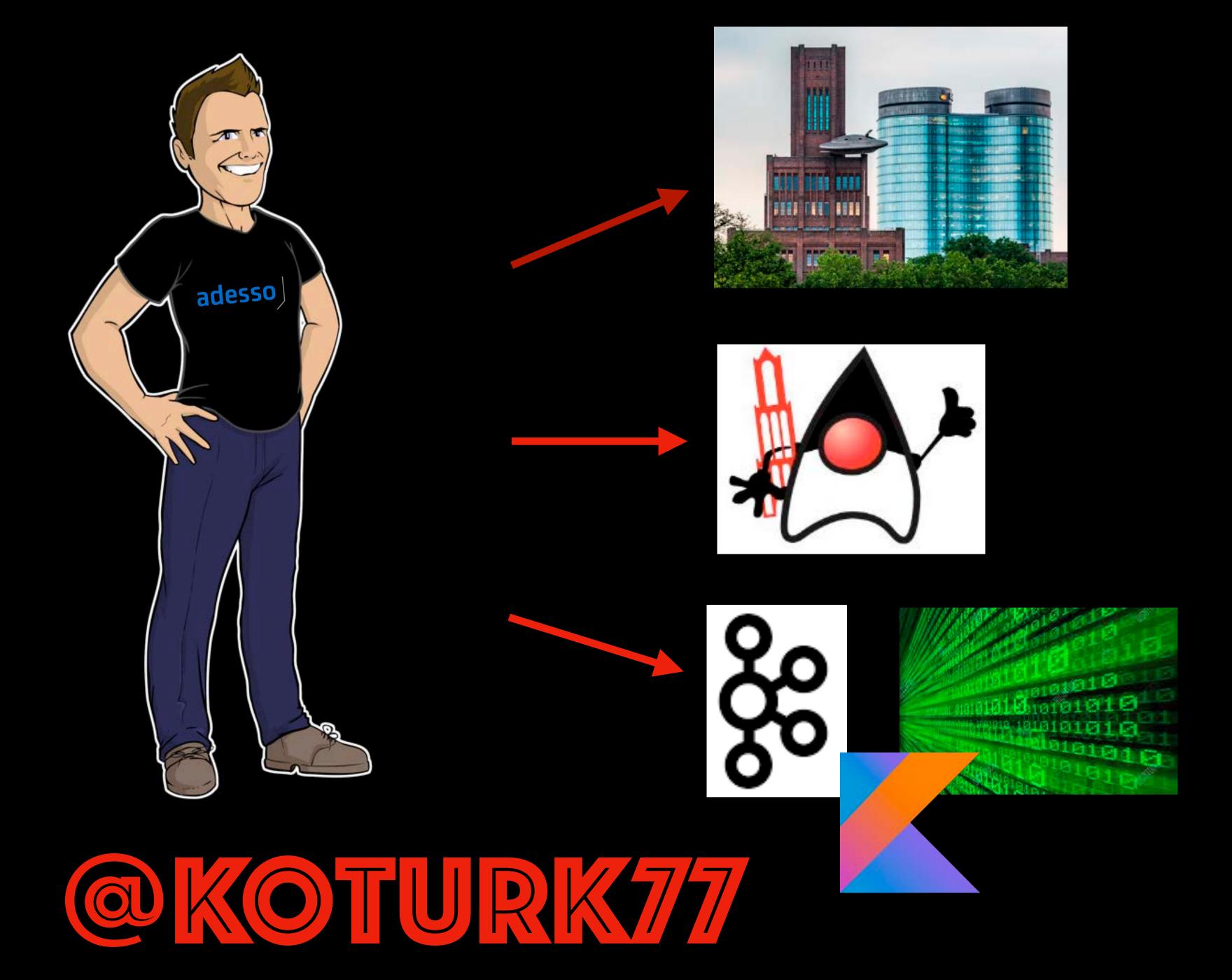
Kafka Streams nightmare or sweet dream?





SO IT DEPENDS





You will learn

How to:

- Produce / consume messages
- Process big data
- Custom processing (with timing)
- Create proper monitoring

- --> spring-kafka
- --> actuator



https://github.com/KoTurk/Kafka/tree/main/Javaland

MARNING

This meeting will contain live coding, so everything could (potentially) go wrong.



The story....









but it's slow....



Let' Apache Kafka! With Apache async

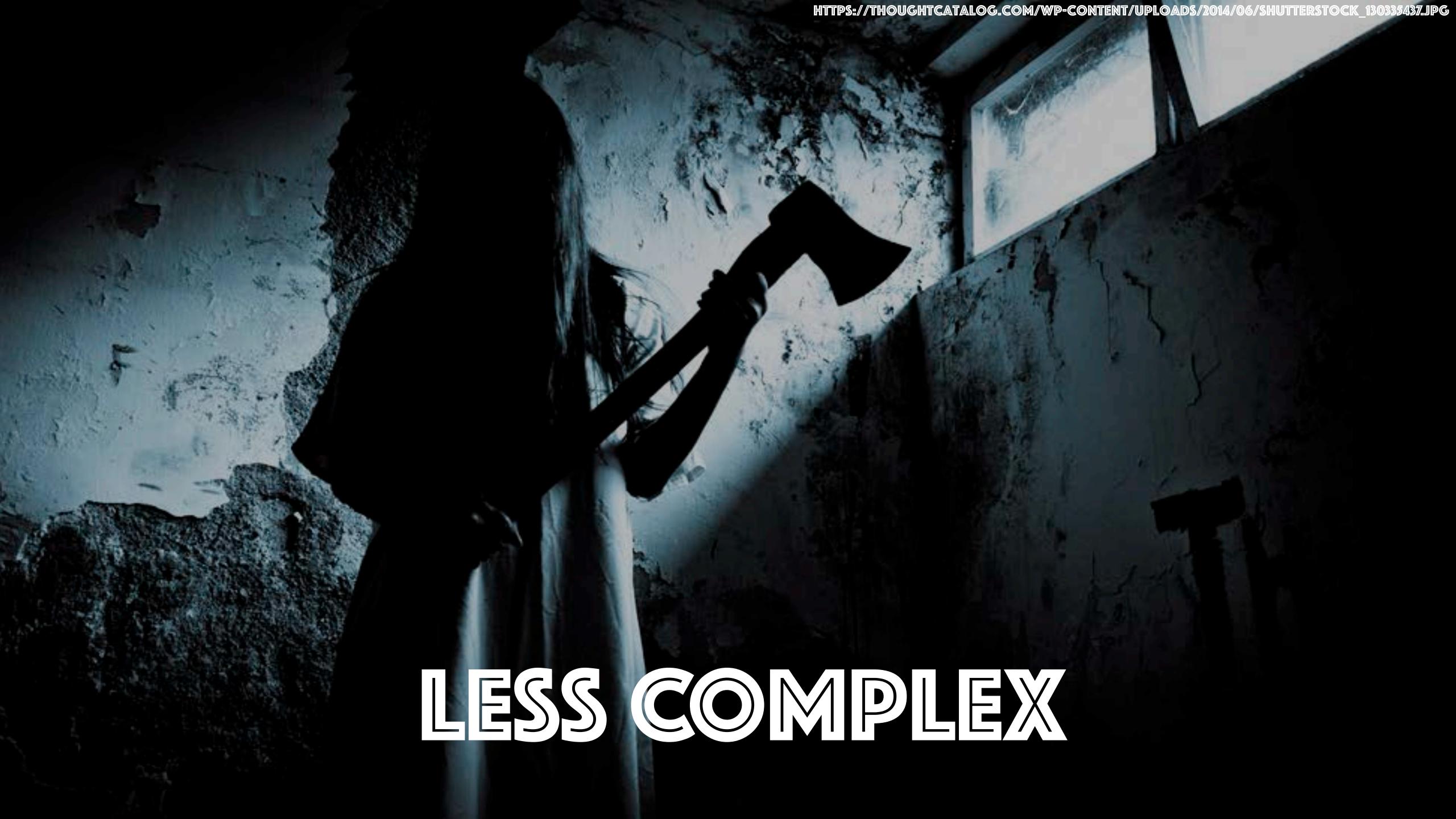




but first, why?? event streaming









FAULT TOLERANT



REPLAYABILITY

For that we have

8 kafka









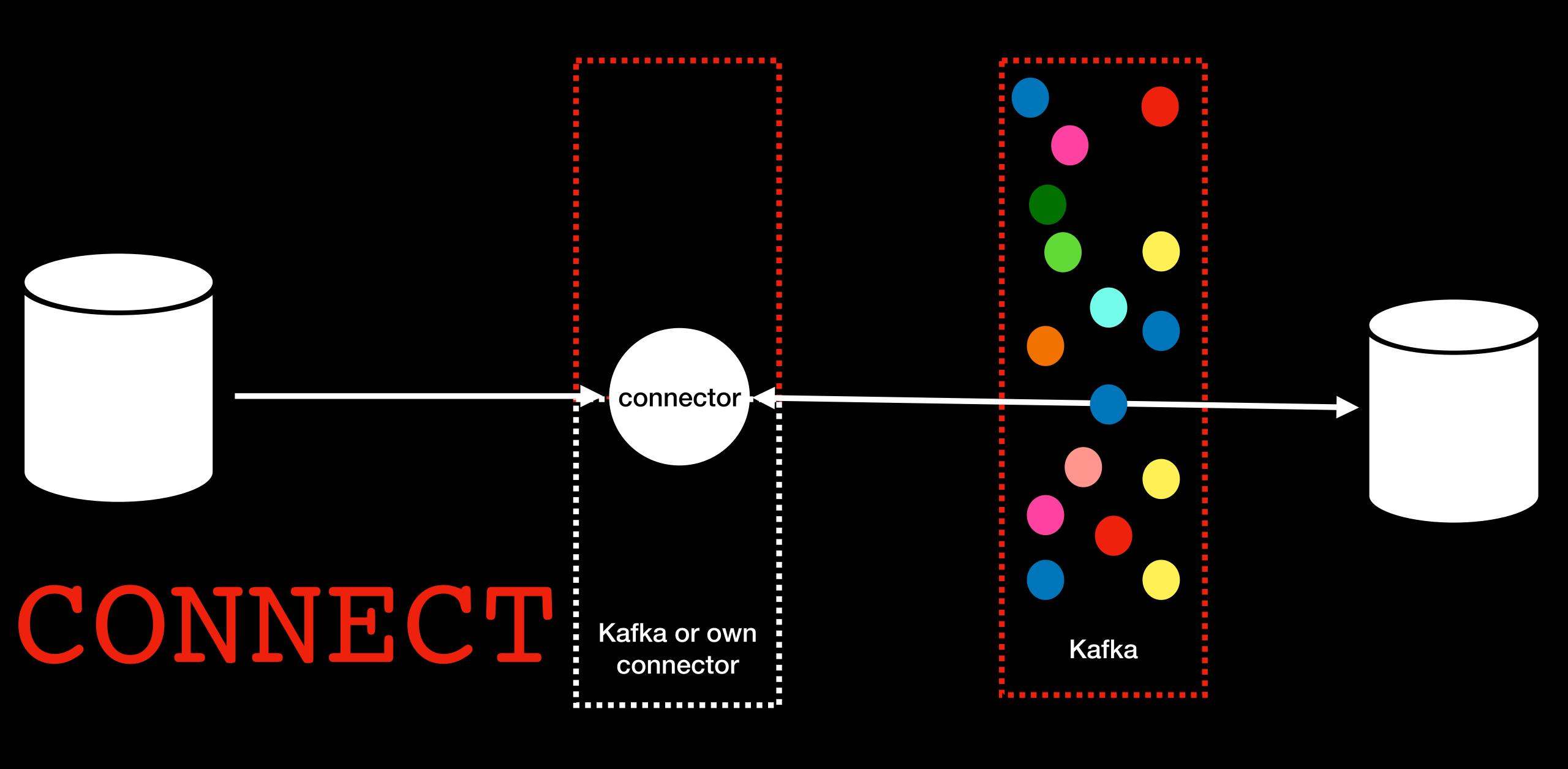
KAFKA is most useful with BIG DATA



Create, Process, and Query Event Streams and Tables ksqIDB Streaming Database **Compute Layer** TABLE Kafka Streams API Kafka Kafka Consumer API Producer API Import Data as Event Streams with Connectors Export Data as Event Streams with Connectors Kafka Connect & Kafka Connect & CLOUD SERVICE, DB, CLOUD SERVICE, DB, OR OTHER SYSTEM OR OTHER SYSTEM Producer API Consumer API Kafka Cluster Broker Broker Broker Broker Read and Process Create **Event Streams Event Streams** with with Kafka Producer APIs Kafka Consumer APIs APP APP Broker . Broker Broker Elastic & Scalable Streaming Storage **Storage Layer**

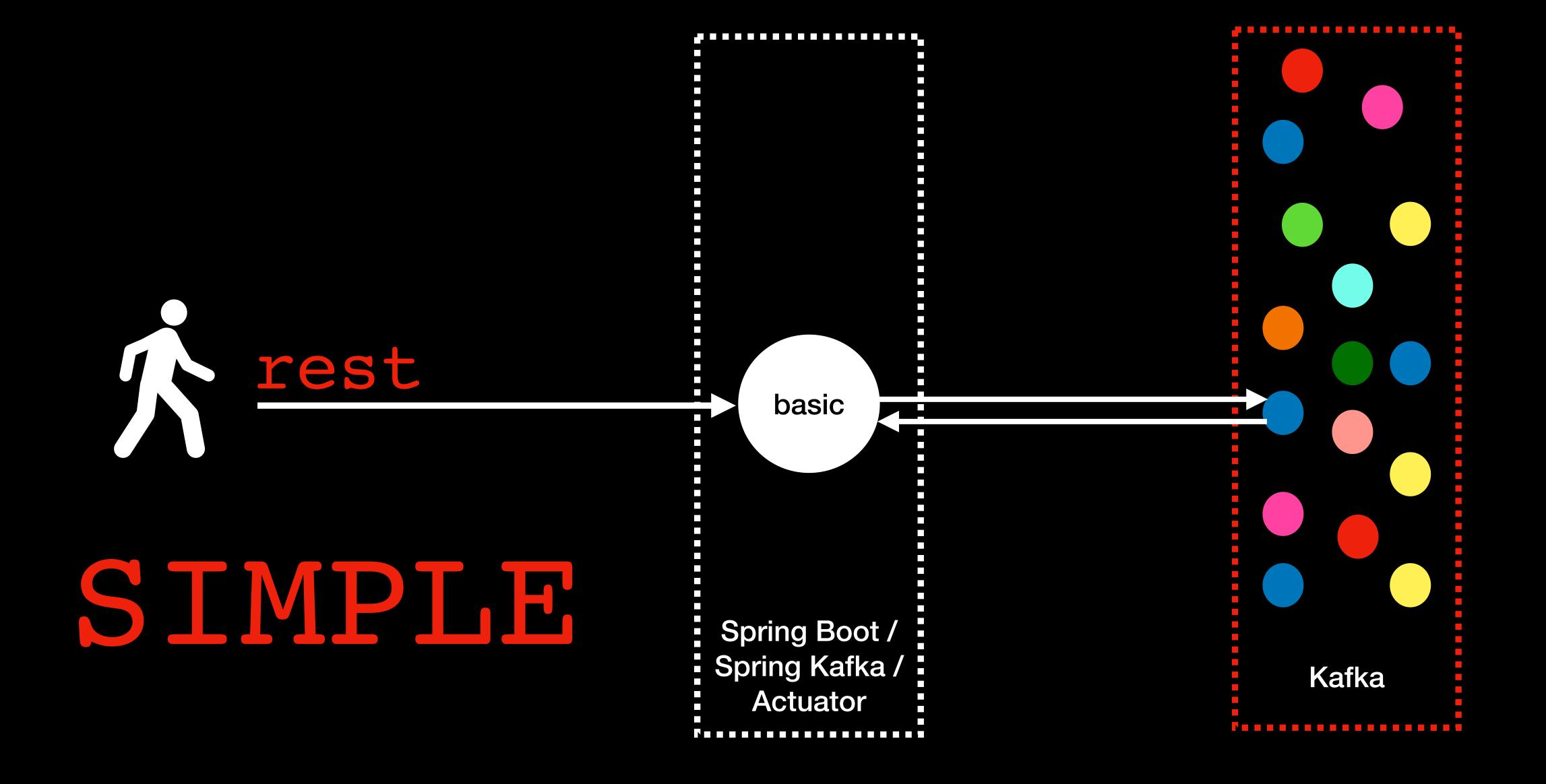
From Confluents site



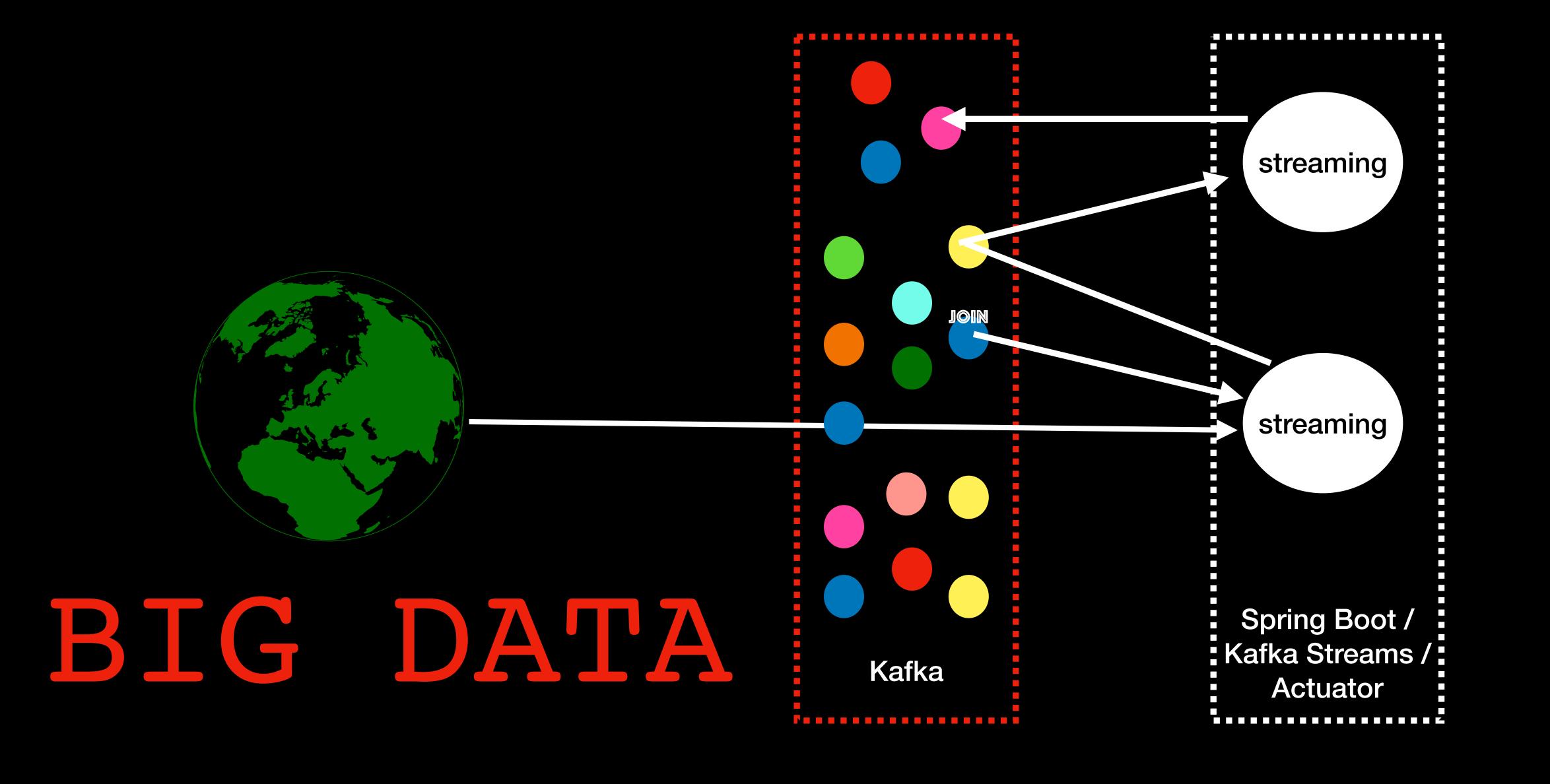


NIGHMARE

But when configured, 1t runs smoothly



SWEET DREAM



SWEET DREAMS? LET'S DISCOVER TOGETHER



You learned

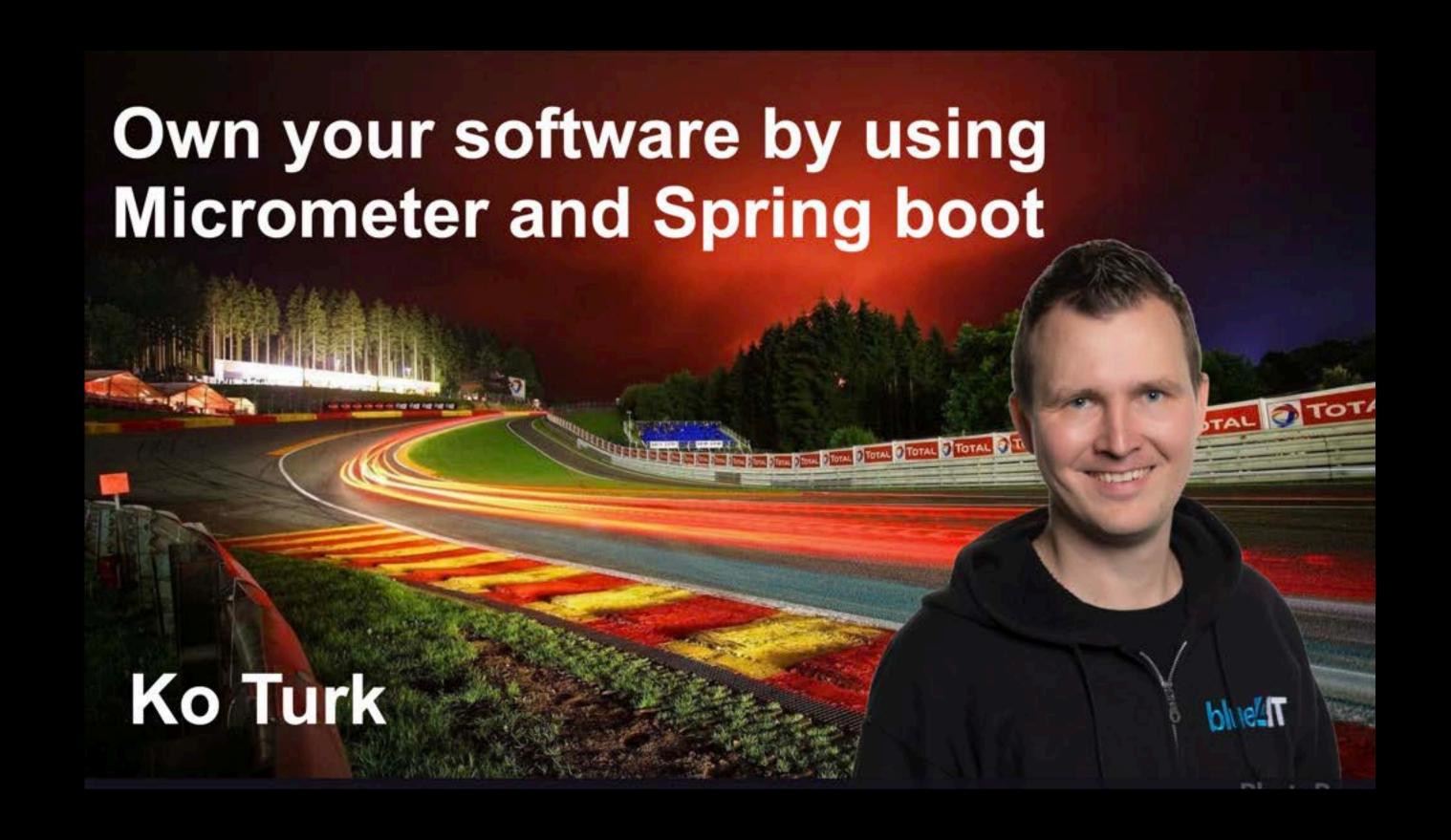
How to use:

- Consumer
- Producer
- Streams

- -> @KafkaListener
- -> Kafkatemplate
- -> Streamsbuilder

Learn to create metrics (actuator)!!

HTTPS://YOUTU_BE/UNSZKYPAMZC?T=688





MONITORING

REFERENCES

for more fun



spring kafka

https://docs.spring.io/spring-kafka/docs/current/reference/html/



streams (more tutorials)

https://developer.confluent.io/tutorials/



Slides + code (branch 'solution')
Follow me at Twitter: @KoTurk77

