

# Integrating with Futures



# Goal

Akka Streams & Futures

Important for integrating with external services



# Recap

Flows that call external services

```
mySource.mapAsync(parallelism = 5)(element => MyExternalService.externalCall(element))
```

Useful when the services are asynchronous

- the Futures are evaluated in parallel
- *the relative order of elements is maintained*
- a lagging Future will stall the entire stream

```
mySource.mapAsyncUnordered(parallelism = 5)(...)
```

Evaluate the Futures on their *own* ExecutionContext

MapAsync works great with asking actors

```
mySource.mapAsync(parallelism = 5)(mySource ? _)
```

**Akka rocks**

