



# Falling back

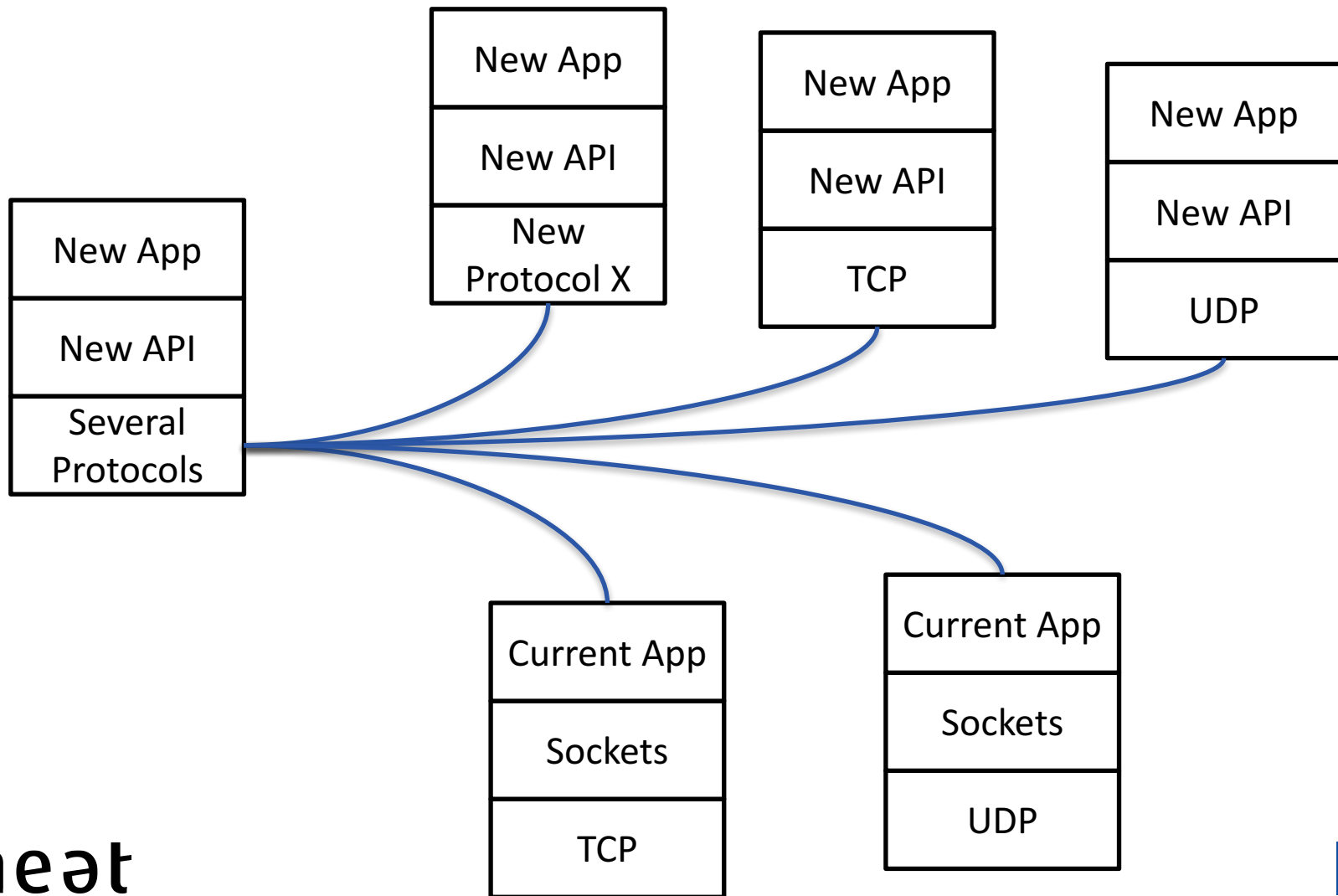
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Horizon 2020  
European Union funding  
for Research & Innovation



# Who can we talk to?



# Application-Framed (AFra-)Bytestream

- From minset TAPS draft:  
“require TCP fallback for SCTP”  
=> can have various ways to send messages, but only receive streams
- **AFra-Bytestream:** only applications delimit data
  - Transport framing unnecessary: TCP apps already (need to) do this
- **Uniform access** to protocol-independent transport layer
  - Can implement all typical messaging things in transport
  - No significant receiver overhead: each AFra-block always stays intact
- Possible implementation: **just a normal bytestream interface**
  - Optional information from app to transport about frame boundaries
  - Receiver app can easily identify out of order blocks, lost blocks,...



# What is a flow?

- From minset TAPS draft:  
No application-specific knowledge involved in decision to use multiple connections or multiple streams of an association
  - To the app, “Multi-streaming” is only a flow grouping concept
- Suggest to only expose “flows” with “group” concept
  - 3 flows can e.g. be 3 streams of one association or 3 TCP connections
  - Flows have properties: flow group number, flow priority number
- Note: this affects establishment / teardown semantics
  - E.g., streams of an association can just begin to send  
=> connect() without data not guaranteed to do anything on the wire

