

A semi-transparent blue wireframe car is centered in the background. It is overlaid with a network of orange lines and several circular icons: a house, a cloud, a building, a car, a truck, a traffic light, and a smartphone. The background also shows a city skyline at night.

[GPRO]
Generic Protocol Working Session

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Working session Agenda

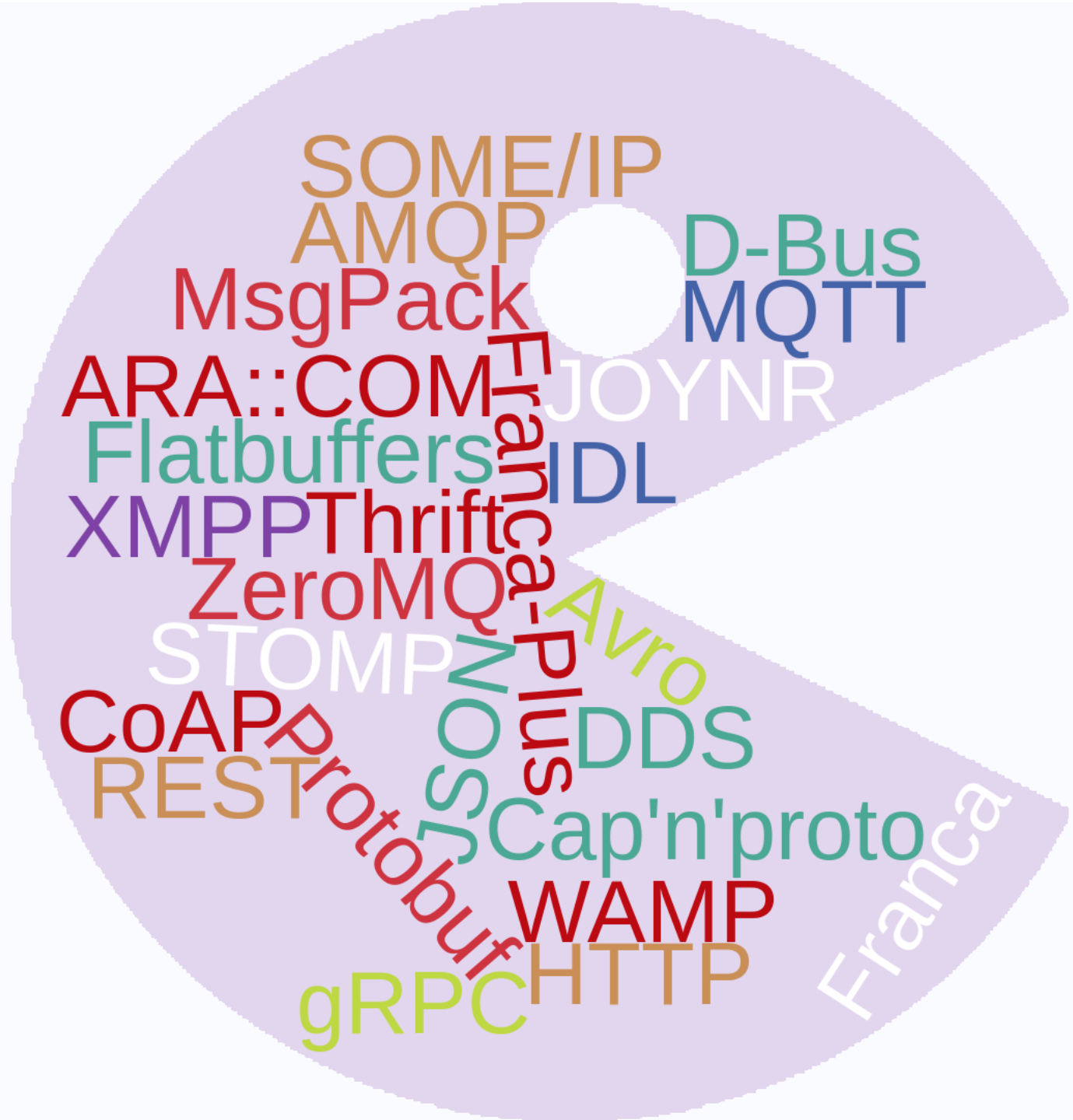
- Participants and getting to know each other
- Review of project intro & goals
- Review of presentations so far
- How well has knowledge sharing phase succeeded?
(Is everyone informed about each part?)
- Discuss popularity poll options & questions
- Discuss potential for industry convergence
- Franca IDL usage poll, alternatives poll.
- JOYNR-type frameworks. Alternatives?
- Design of such frameworks.

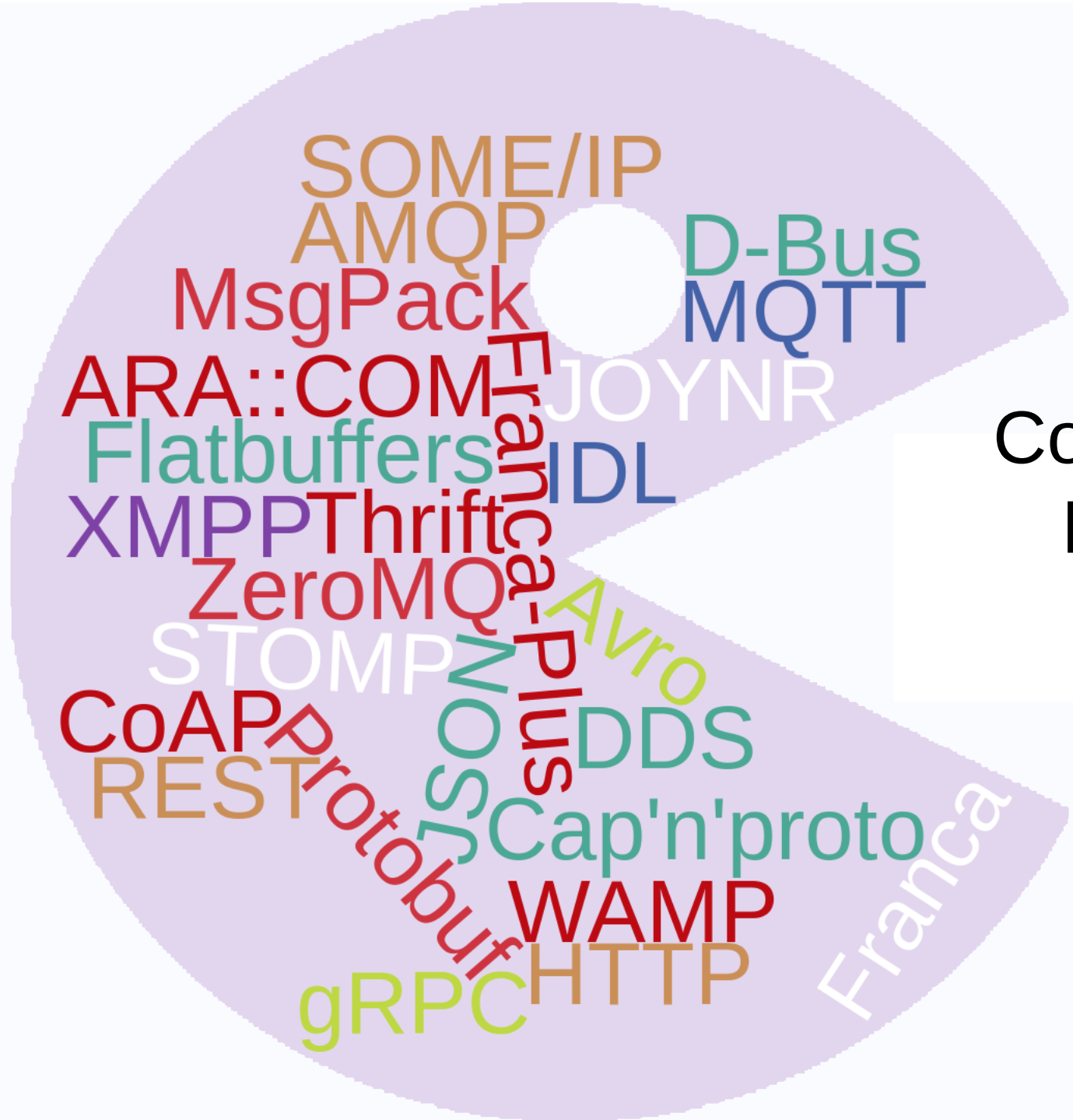
Project intro & Goals

- [Kickoff-slides](#)

A word cloud featuring various protocols and technologies. The words are arranged in a roughly triangular shape, pointing downwards. The colors of the words vary, including shades of orange, red, green, blue, purple, and yellow. The text includes:

- SOME/IP
- AMQP
- MsgPack
- ARA::COM
- Flatbuffers
- XMPP
- Thrift
- ZeroMQ
- STOMP
- CoAP
- REST
- JSON
- gRPC
- HTTP
- D-Bus
- MQTT
- JOYNR
- IDL
- Avro
- DDS
- Cap'n'proto
- WAMP
- Francia





Complexity
Eating
Us
Alive?

Technology Polls

Technology Polls

- For one vote, write a vertical line:
- For extra importance, use star ★

- HTTP |||
- CoAP |
- D-Bus | ★ ||
- Protobuf
- GRPC |
- MsgPack
- JSON |
- Thrift
- Avro ||
- Franca-Plus
- ZeroMQ
- STOMP

Technology Poll – awareness – use single vote (line) if you are familiar with the technology, else leave blank

- Franca IDL
- CommonAPI
- MQTT
- WAMP
- AMQP
- XMPP
- SOME/IP
- REST
- Flatbuffers
- Cap'n'proto
- ARA::COM
- DDS
- HTTP
- CoAP
- D-Bus
- Protobuf
- gRPC
- MsgPack
- JSON
- Thrift
- Avro
- Franca-Plus
- ZeroMQ
- STOMP

*What did
we miss?*

Technology Poll – importance – use single line for importance. Use star ★ for extra importance.

- Franca IDL
- CommonAPI
- MQTT
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- AMQP
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REST protocol

- [Vehicle Signal to REST mapping](#)

Development Tooling (GPRO ↔ SHDA)

- D-Bus → D-Feet
- Franca (PSM) →
- REST → ?
-
- (DLT – DLT-viewer,)
- ... cont'd other high-prio

Convergence

- What is your opinion about reducing the number of protocols
- Creating recommendations?

- What is your opinion about creating model transformation
- and code generators to/from Franca IDL?

- What is your opinion about implementing abstractions over protocols (like JOYNR)