

The background of the slide is a semi-transparent image of a car, overlaid with a complex network of white lines and nodes. Several circular icons are connected to the network, including a house, a cloud, a traffic light, a car, a truck, a smartphone, and a city skyline. The overall color scheme is dark with orange and teal accents.

**[GPRO]**  
**Generic Protocol Working Session**

**(Giovanni Vergine) & Gunnar Andersson**

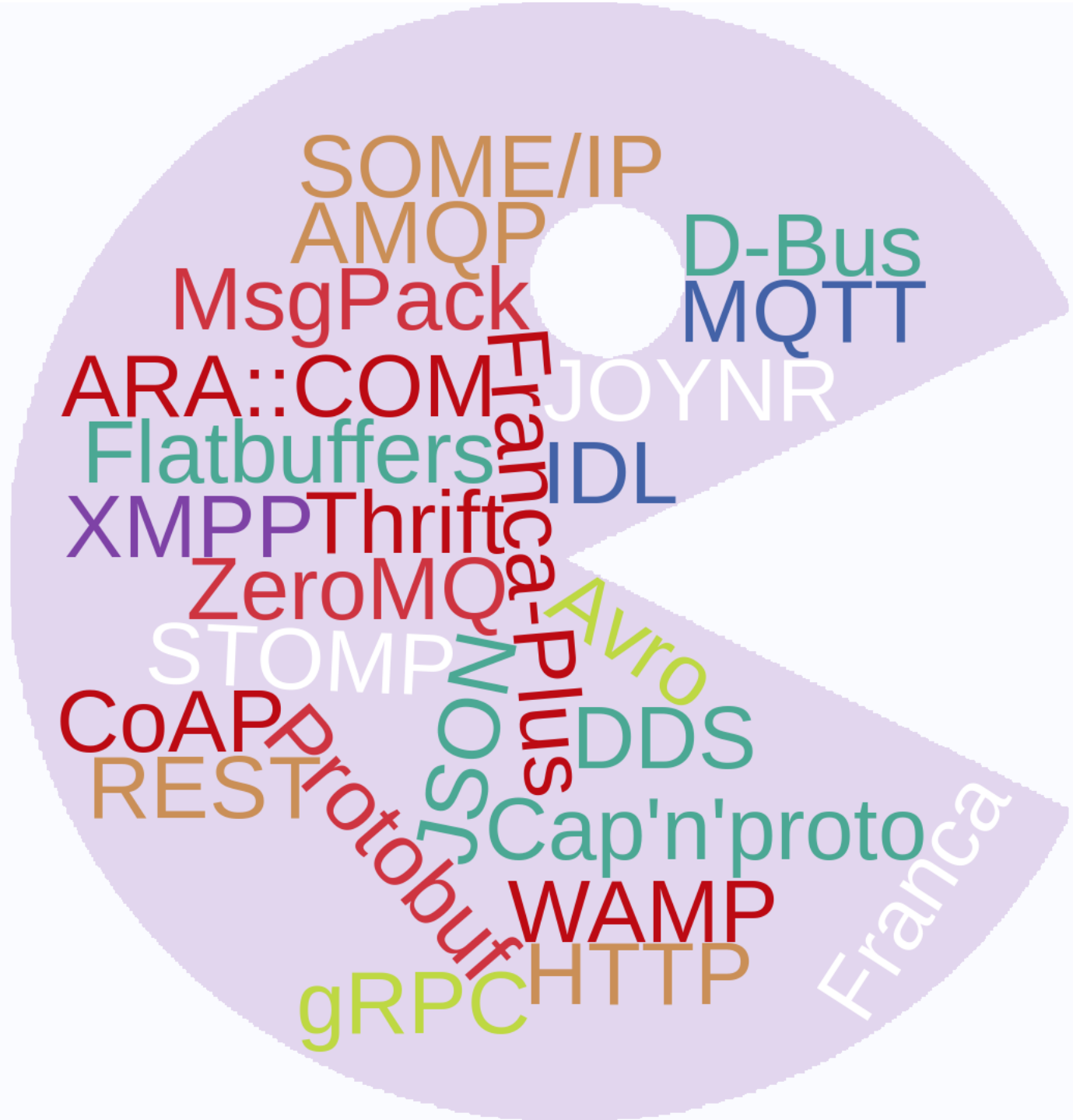
# Working session Agenda

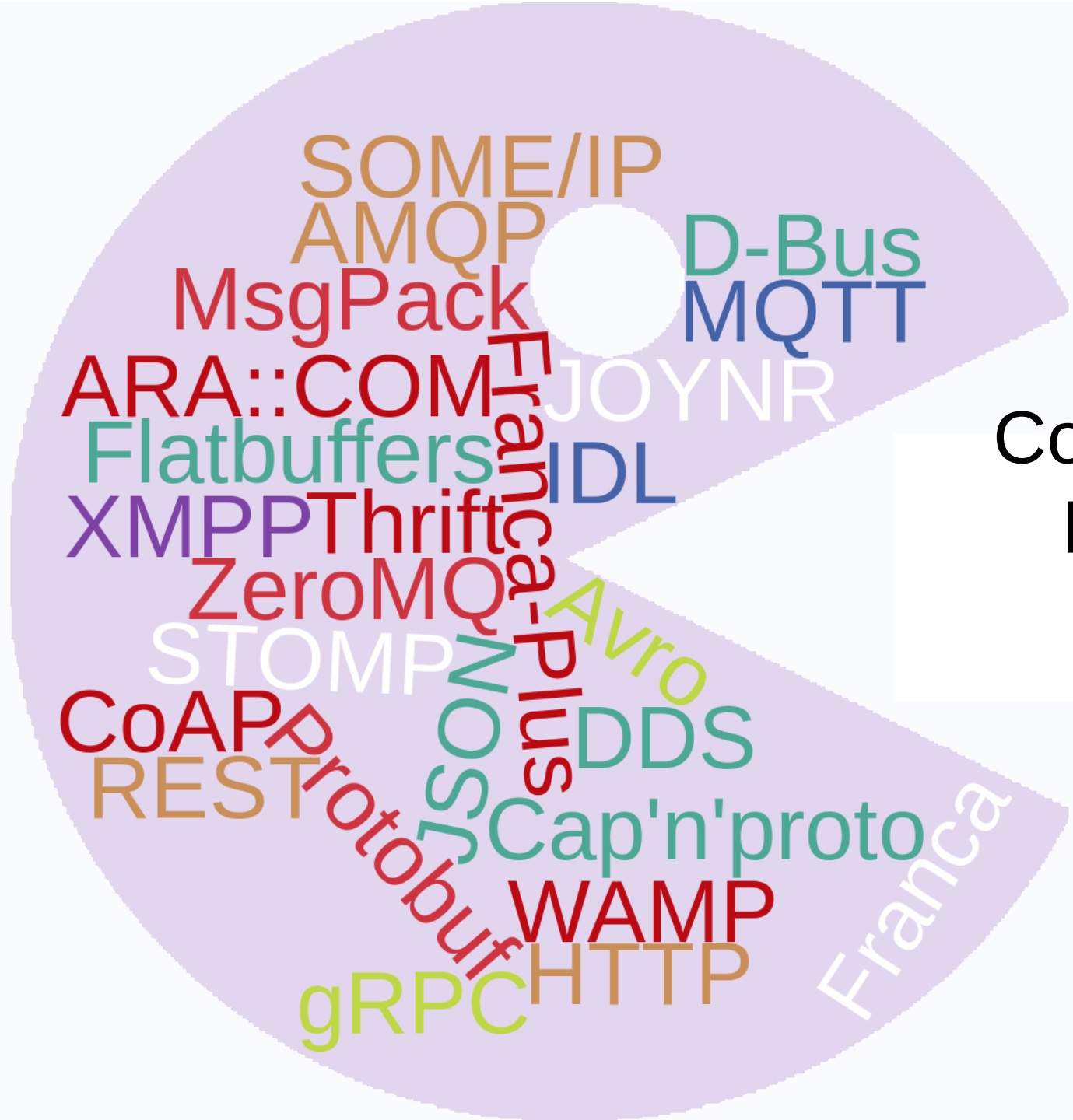
- Participants and getting to know each other
- Review of project intro & goals
- Review of presentations so far
- How well has knowledge sharing phase succeeded?  
(Is everyone informed about each part?)
- Discuss popularity poll options & questions
- Discuss potential for industry convergence
- Franca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

# Project intro & Goals

- [Kickoff-slides](#)

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





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
- WAMP
- AMQP
- XMPP
- SOME/IP
- REST
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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)