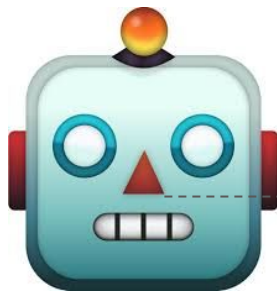


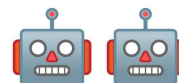
whoelse.ai is an **API for a simplified language in AI**



**WHOELSE?**

**User Intent Standard**

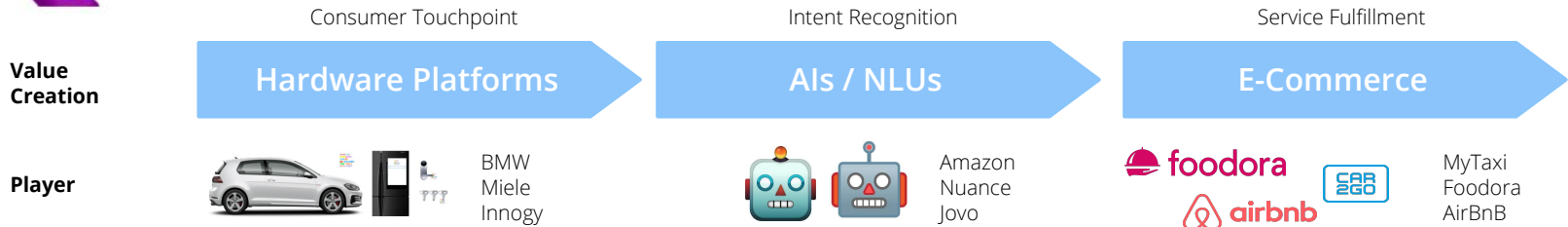
= Privacy-by-design API to store  
& dispatch human language  
Universal grammar for different NLP ecosystems



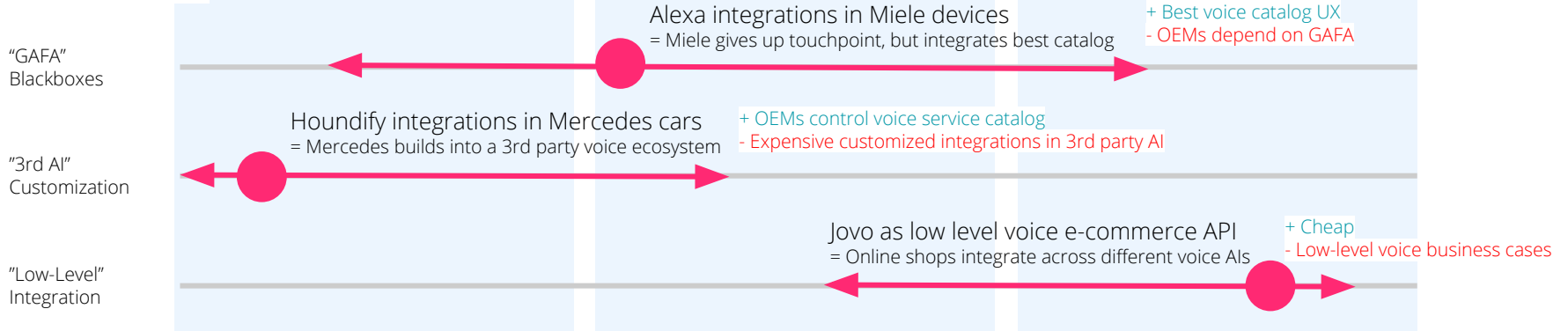
# Today NLPs work very differently..



AI, I need a ride to the Airport!



## Who controls which part of the value creation chain?



# ..whoelse.ai simplifies NLP APIs



AI, I need a ride to the Airport!

Consumer Touchpoint

Intent Recognition

Service Fulfillment

Value Creation

Hardware Platforms

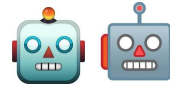
AIs / NLUs

E-Commerce

Player



BMW  
Miele  
Innogy



Amazon  
Nuance  
Jovo



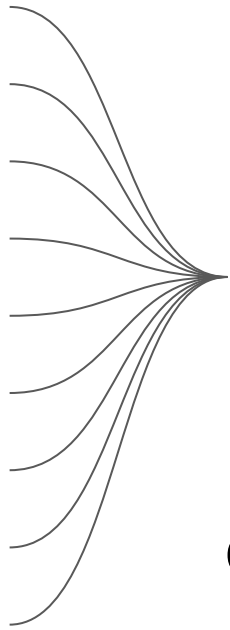
MyTaxi  
Foodora  
AirBnB

# WHOELSE?

# DIN

# whoelse.ai is a standardized protocol for spoken intents

Mindmeld  
Rasa  
Fraunhofer  
Houndify  
Watson  
Mycroft  
Omnibot  
Houndify  
Bosch



## WHOELSE?

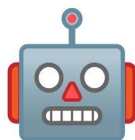
SCHOOL who else?	PHONE REPAIR who else?	SCHOOL who else?
HAIRCUT who else?	CYCLE COURIER who else?	HAIRCUT who else?
CYCLE who else?	DELIVERY who else?	CYCLE who else?
FLEA-MARKET who else?	MOVERS who else?	FLEA-MARKET who else?
CINEMA who else?	ACCELERATORS who else?	CINEMA who else?
THEATRE who else?	PHOTOGRAPHER who else?	THEATRE who else?
DOG-SITTING who else?	ASTRONOMY who else?	DOG-SITTING who else?
GARDENING who else?	CHARGING STATION who else?	GARDENING who else?
PAINTER who else?	GAS STATION who else?	PAINTER who else?
TAXI who else?	PAINTER Pizza?	who else?
RIDESHARE who else?	FLAT-SHARE who else?	RIDESHARE who else?
LAUNDRY who else?	CRAFTSMAN Date?	who else?
SALE who else?	BOOK CLUB who else?	IT HELP who else?
CAR who else?	SPORT Apartment?	who else?
CONCERT who else?	RELIGION who else?	LAUNDRY who else?
BOARD GAME who else?	DATE who? Taxi?	who else?
BAND who else?	SCOOTER who else?	CAR who else?
CASH who else?	IN THIS COMPANY who else?	CONCERT who else?
KINDERGARTEN who else?	TRAVELLING who else?	BOARD GAME who else?
RENOVATION who else?	DOCTOR who else?	BAND who else?
TIMFRMAN who else?	TAILOR who else?	CASH who else?
FOUND&LOST who else?		
SEX who else?		
MUSIC who else?		

OEMs require 3rd voice AIs to encode spoken intents by a standardized catalog & grammar

Examples

whoelse.ai

# whoelse.ai makes language standardized dispatchable



User interfaces

Voice AI

Connected AIs & services

*AI, I need a 30 minute parking ticket, please*

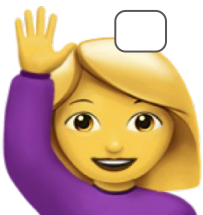
Encoding of Intent

Parking space

Berlin, Mitte

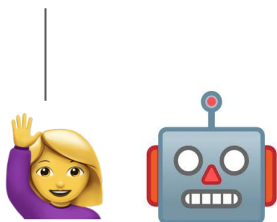
who else?

- SCHOOL who else?
- HAIRCUT who else?
- CYCLE who else?
- FLEA-MARKET who else?
- CINEMA who else?
- THEATRE who else?
- DOG-SITTING who else?
- GARDENING who else?
- PAINTER who else?
- TAXI who else?
- RESTAURANT who else?
- APARTMENT who else?
- IT HELP who else?
- CLEANER who else?
- LAUNDRY who else?
- SALE who else?
- CAR who else?
- CONCERT who else?
- BOARD GAME who else?
- BAND who else?
- CASH who else?
- E-SCOOTER who else?
- ACCOUNTANT who else?
- JANITOR who else?
- LEGO who else?
- KINDERGARTEN who else?
- RENOVATION who else?
- TIMFRMANN who else?
- PHONE REPAIR who else?
- CYCLE COURIER who else?
- DELIVERY who else?
- MOVERS who else?
- TYRE who else?
- SITTING who else?
- ENING who else?
- TER who else?
- who else?
- HARE who else?
- TIMENT who else?
- LP who else?
- WER who else?
- JDRY who else?
- who else?
- CAR who else?
- CONCERT who else?
- BOARD GAME who else?
- BAND who else?
- CASH who else?
- E-SCOOTER who else?
- ACCOUNTANT who else?
- JANITOR who else?
- LEGO who else?
- KINDERGARTEN who else?
- RENOVATION who else?
- TIMFRMANN who else?
- SCOOTER who else?
- IN THIS COMPANY who else?
- TRAVELLING who else?
- DOCTOR who else?
- TAILOR who else?
- BABYSITTER who else?
- ASSISTANT who else?
- HOTEL who else?
- HOSTEL who else?
- SEX who else?
- MIETZ who else?



# Spoken language is relayed by a standardized grammar

“Hey AI, who drives to the concert tonight?”



SCHOOL who else?  
HAIRCUT who else?  
CYCLE who else?  
FLEA-MARKET who else?  
PHONE REPAIR who else?  
CYCLE COURIER who else?  
DELIVERY who else?  
MOVERS who else?  
SCHOOL who else?  
HAIRCUT who else?  
CYCLE who else?  
FLEA-MARKET who else?

Concert

who else?

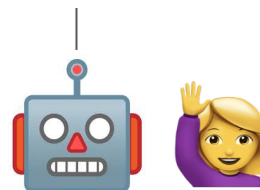
TAXI who else?  
RIDESHARE who else?  
PAINTER who else?  
FLAT-SHARE who else?  
TAXI who else?  
RIDESHARE who else?

Rideshare

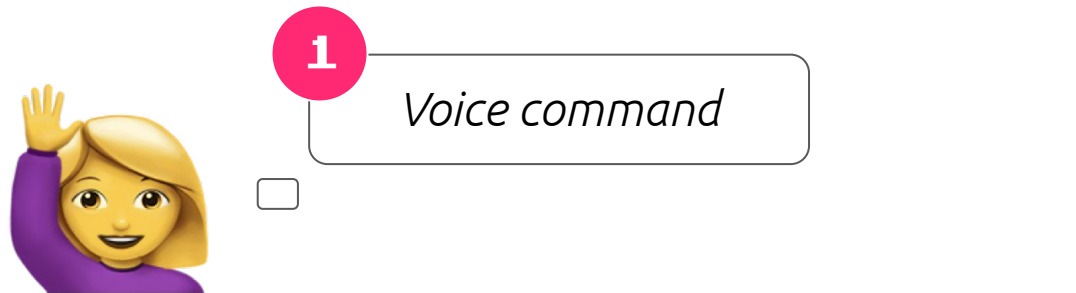
who else?

CAR who else?  
CONCERT who else?  
BOARD GAME who else?  
BAND who else?  
CASH who else?  
E-SCOOTER who else?  
ACCOUNTANT who else?  
JANITOR who else?  
LEGO who else?  
KINDERGARTEN who else?  
RENOVATION who else?  
TIMPERMAN who else?  
SCOOTER who else?  
IN THIS COMPANY who else?  
TRAVELLING who else?  
DOCTOR who else?  
TAILOR who else?  
BABYSITTER who else?  
ASSISTANT who else?  
HOSTEL who else?  
HOTEL who else?  
FOUND&LOST who else?  
SEX who else?  
MUSIC who else?  
CAR who else?  
CONCERT who else?  
BOARD GAME who else?  
BAND who else?  
CASH who else?  
E-SCOOTER who else?  
ACCOUNTANT who else?  
JANITOR who else?  
LEGO who else?  
KINDERGARTEN who else?  
RENOVATION who else?  
TIMPERMAN who else?

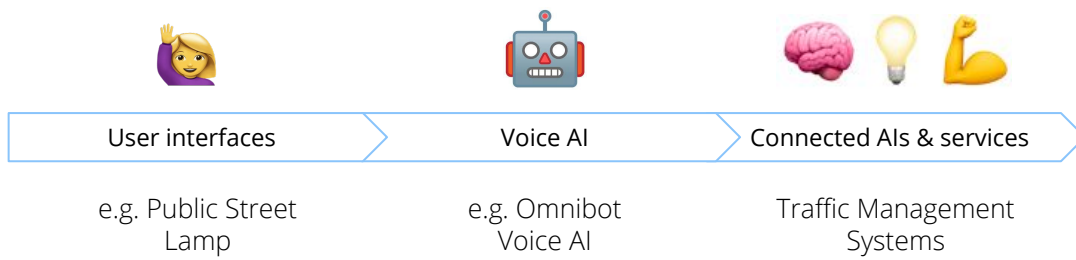
“Melanie, your friend Steffi looks for a ride - should I calculate the route?”



# Integration Schema NLPs format language by whoelse.ai

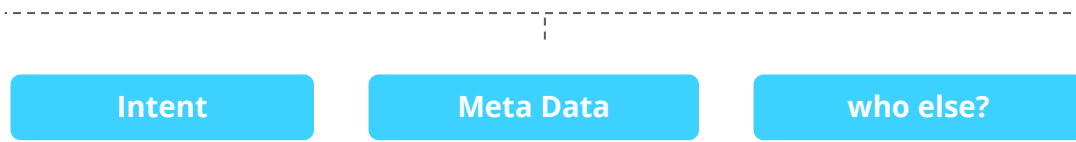


## 2 Processing Schema



OEMs can flexible integrate different AIs

## 3 Encoded Intent



Voice intents are stored by a simplified protocol

# 3 Use Cases for Universal Grammar Voice, text, & visual data

1

## Voice Interfaces



Voice  
command

### Encoding of spoken Intents

What did the user  
mean

who else?

2

## Text/Data Mining



RECEIPT

JUL 17

Payment Reference  
Information

0.00

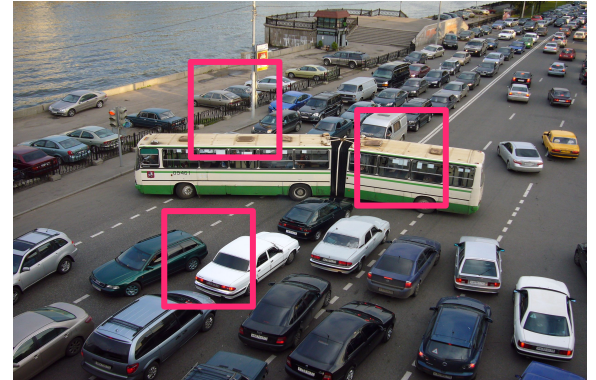
### Encoding of text-based Intents

What did the user  
do?

who else?

3

## Visual Analytics



### Encoding of visual information

What did the AI  
see

who else?

# Voice interfaces OEMs can access an open source catalog

1

## Voice Interfaces



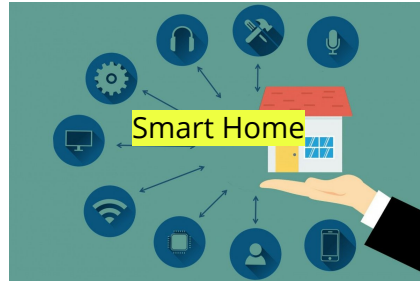
Voice command

### Encoding of spoken Intents

What did the user mean

who else?

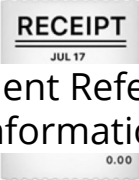
### Cases



# Natural language becomes searchable in organizations

2

## Text/Data Mining



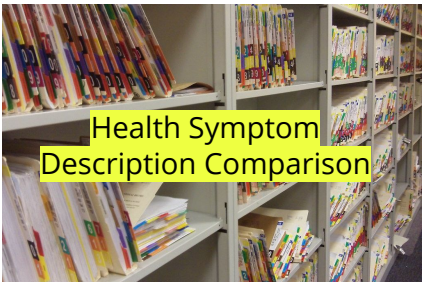
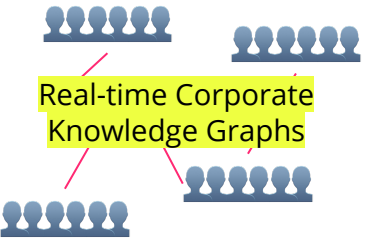
Payment Reference  
Information

Encoding of text-based Intents

What did the user do?

who else?

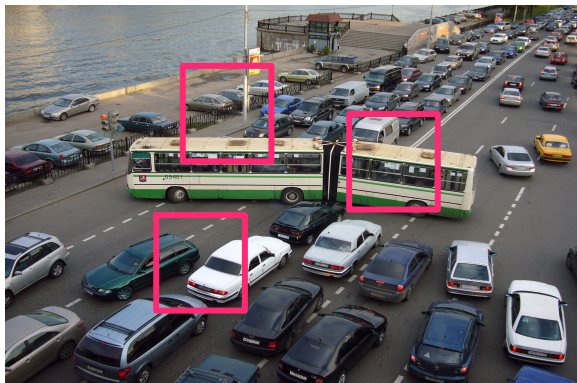
### Cases



# Visual interpretations become interoperable

3

## Visual Analytics



Encoding of visual information

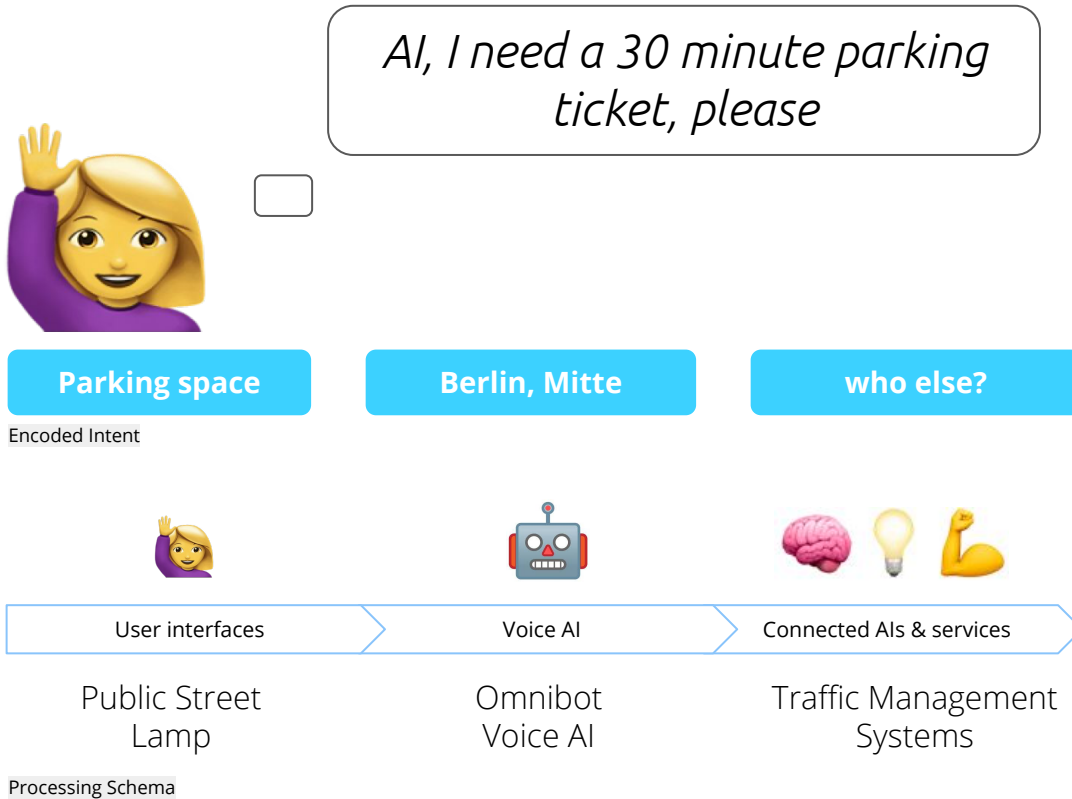
What did the AI see?

who else?

### Cases



# Retrofitting of lamp posts as voice operated ticket machines



# Voice interfaces in public locations



*Assistant, get me some fries!*



Food order

BSC - SVW

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Event  
Venue

Nuance My  
Voice is my Password

Food Delivery  
Service

Processing Schema

# Public voice interfaces in smart buildings



*Once you notice I am near to the elevators, you call the cab!*

UBER

to my office

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Smart Buildings

MyCroft AI

Mobility Services

Processing Schema

# Voice-activated peer-2-peer services



*Bus, I need somebody to help me with my wheelchair*



**Traffic helpers**

**Elderlies**

**who else?**

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Public Transport

Deutsche Bahn Sammi

Personal Disposition

Processing Schema

# E-Commerce interfaces in public infrastructures



*I have 10 minutes times and I am hungry. Order a Pizza.*



**Pizza Delivery**

**5 Minutes**

**who else?**

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Charging Station

Volkswagen Nuance

Value-added Services

Processing Schema

# Voice commerce in smart cars



*AI, the children want their rooms to be very warm once coming home*



Home

Heating Settings

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

In-Car Entertainment

Houndify

Smart Home Integrations

Processing Schema

# Speech-based AI team assistance



*AI, find the best copywriter in our team*



Skill

XYZ

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Meeting Room Speaker

IBM Watson

Skill Matching

Processing Schema

# Voice control for smart homes



*Assistant, am I the first person home?*



**At home**

**Peter Str. 1, 1000, Berlin**

**who else?**

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Voice-enabled Doorbell

Mycroft

Access Management Systems

Processing Schema

# Access mobility solutions by your voice



*AI, find me something like a hoverboard*



**Scooter**

**(or) Kickboard**

**who else?**

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Scooter Voice Interface

Nuance My Voice is my Password

Mobility Services

Processing Schema

# Voice controlled energy management systems



*AI, where can I plug in my car right now?*



**Charging**

**45 Watt**

**who else?**

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

On-board  
Voice Interfaces

Bosch  
NLP

Energy  
Services

Processing Schema

# Voice interfaces in nursery



*House, can you call the nurse*



**Nursing**

**Elderly**

**who else?**

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Intelligent Lightbulb

Mycroft

Personal Disposition

Processing Schema

# Voice-driven logistics processes



*Does anyone drive to Bavaria and deliver X*



TXL-MUC

500kg

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Smartspeaker

Houndify

Logistics Services

Processing Schema

# Speech-activated mobility



*I want to drive a  
Porsche for 1 night!*



911 Porsche

07.09.2019

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Smartphone App

Sixt Bot

Mobility Solutions

Processing Schema

# Voice-based interest groups



*I want to collect garbage in my neighborhood, are you in?*



Volunteers

Cause XYZ

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

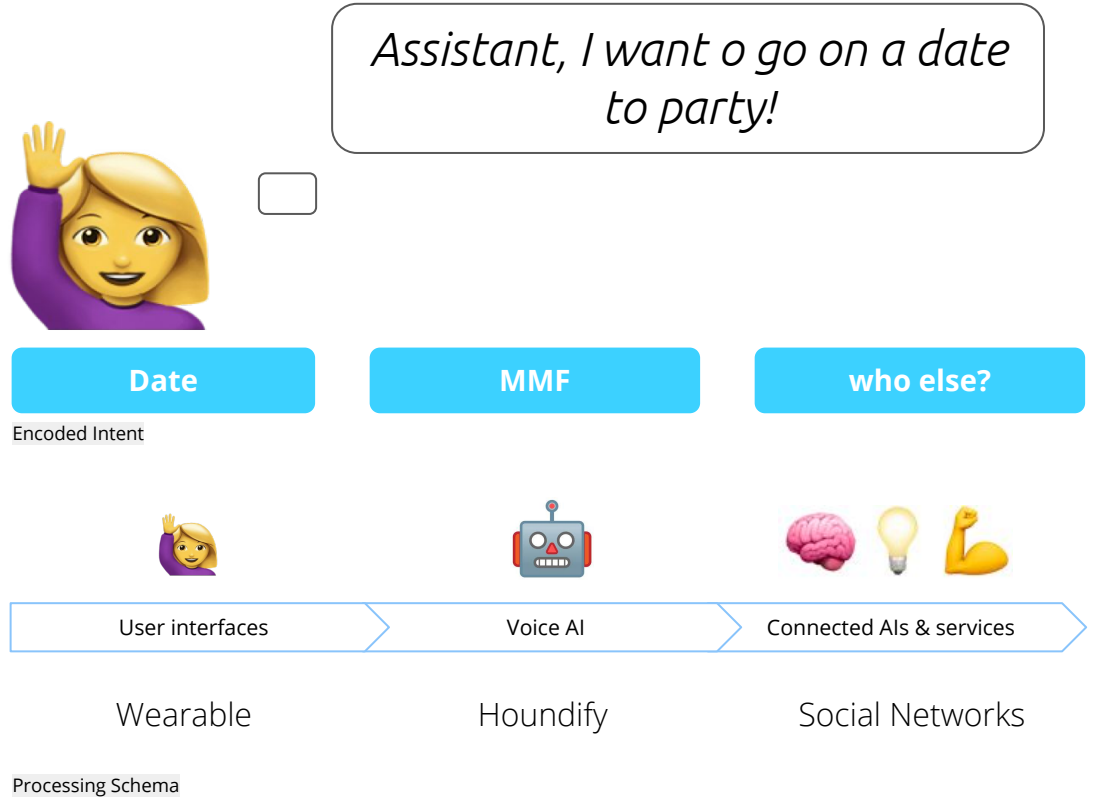
Smartspeaker

Rasa

Community Marketplaces

Processing Schema

# Voice-based dating



# Voice communication in peer groups



*AI, get me somebody to work out!!*



Jogging

Intermediary

who else?

Encoded Intent



User interfaces

Voice AI

Connected AIs & services

Smart Sport Shoes

Mycroft

Social Network

Processing Schema

# Speech navigation for e-government applications

