

WHOELSE?

x

DIN



Make AIs talk to each other!

NEXT STEPS - DIN SPEC 2343

APIs for the transmission of language-based data
between artificial intelligences

18 March 2020

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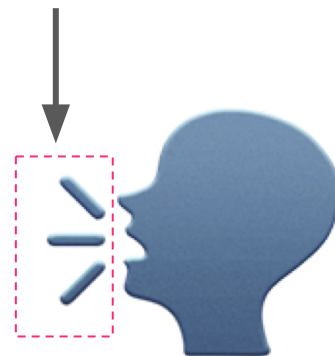
Conversational AIs..

...it's all about **intent!**

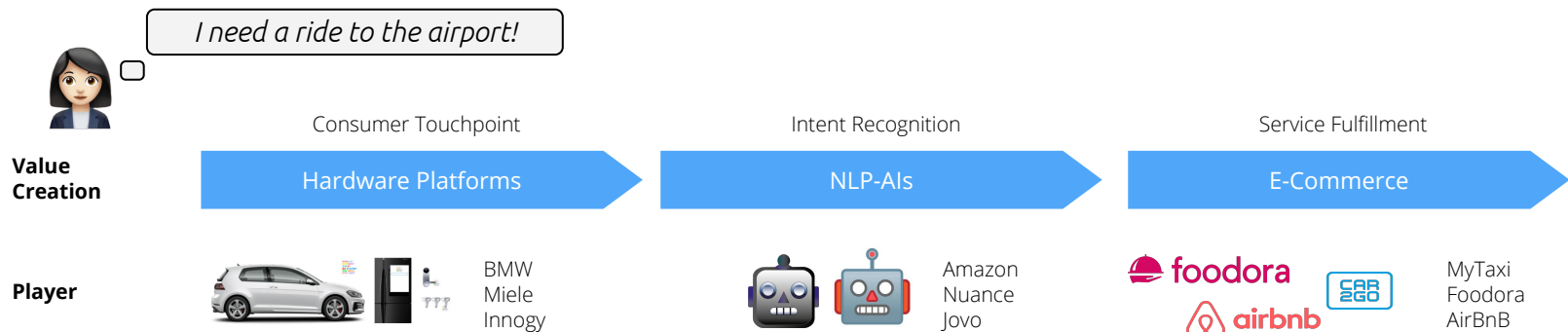
~~How do you say it = Individual syntax, slang, vocabulary~~

Why do you say it = Requested result

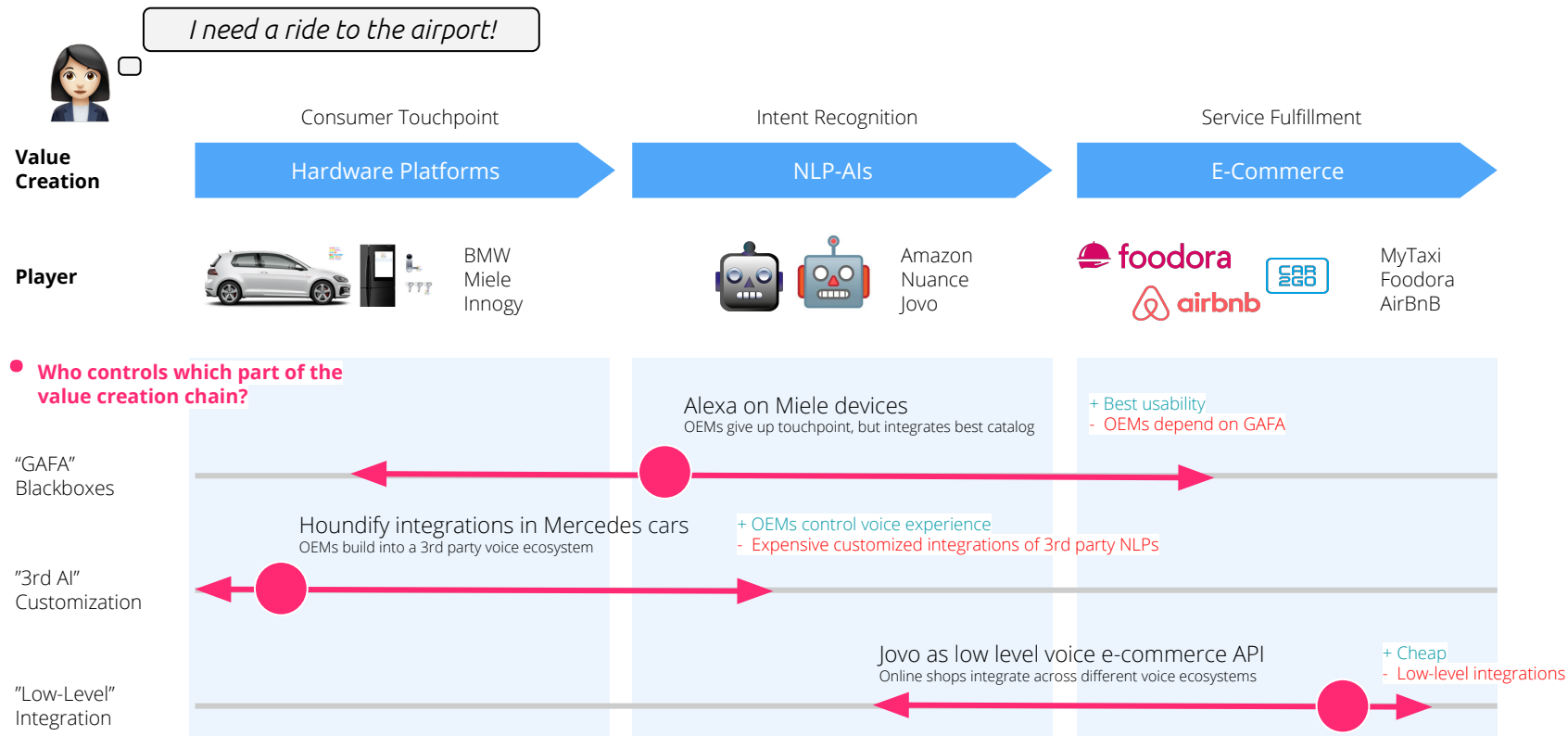
Content of a
speech command



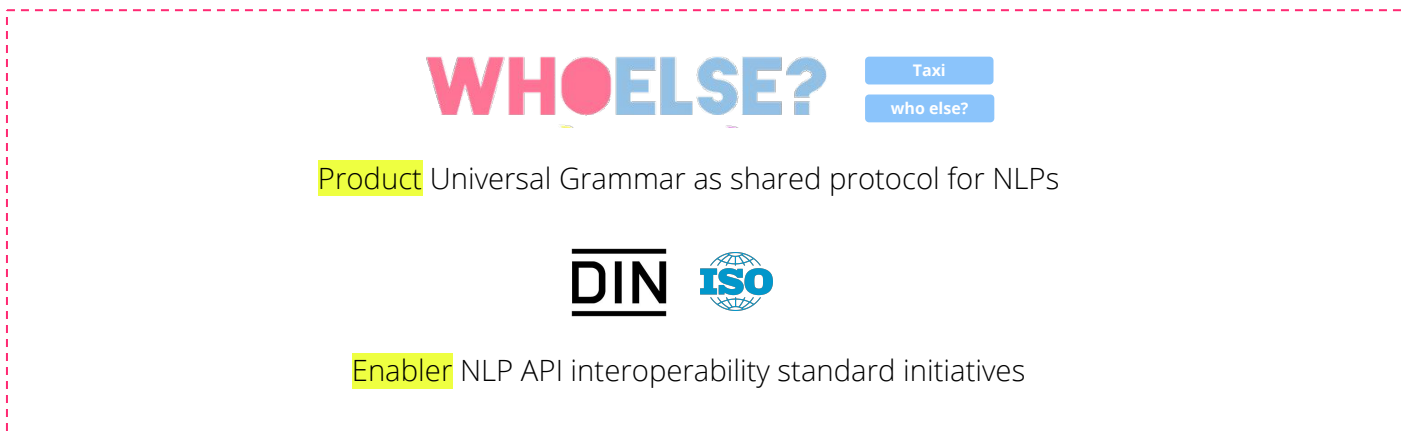
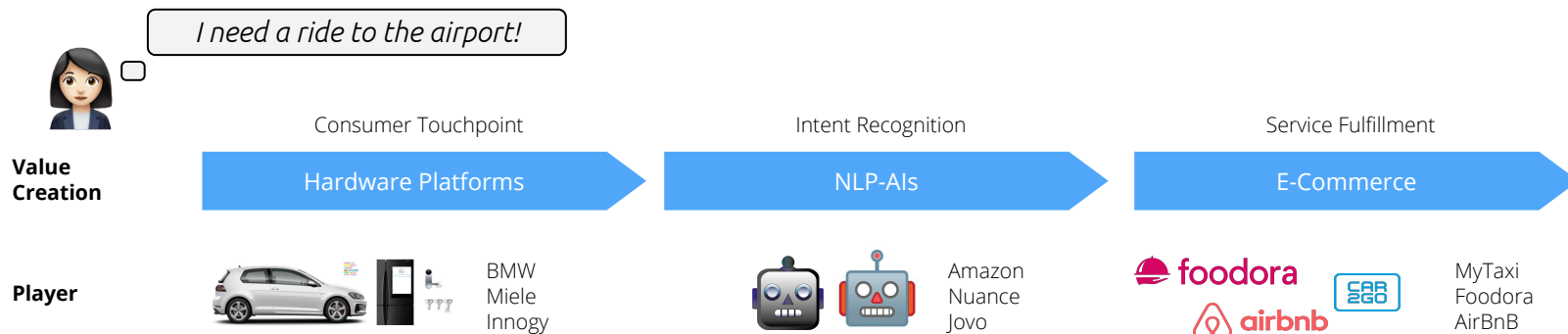
Voice AIs - to do: Reduce complexity!



Current siloed ecosystems disappoint



Solution: **whoelse.ai** simplifies language-based AI services



Product: A standardised language as shared AI namespace

Examples

Mindmeld



Rasa



Fraunhofer



Houndify



Watson



Mycroft



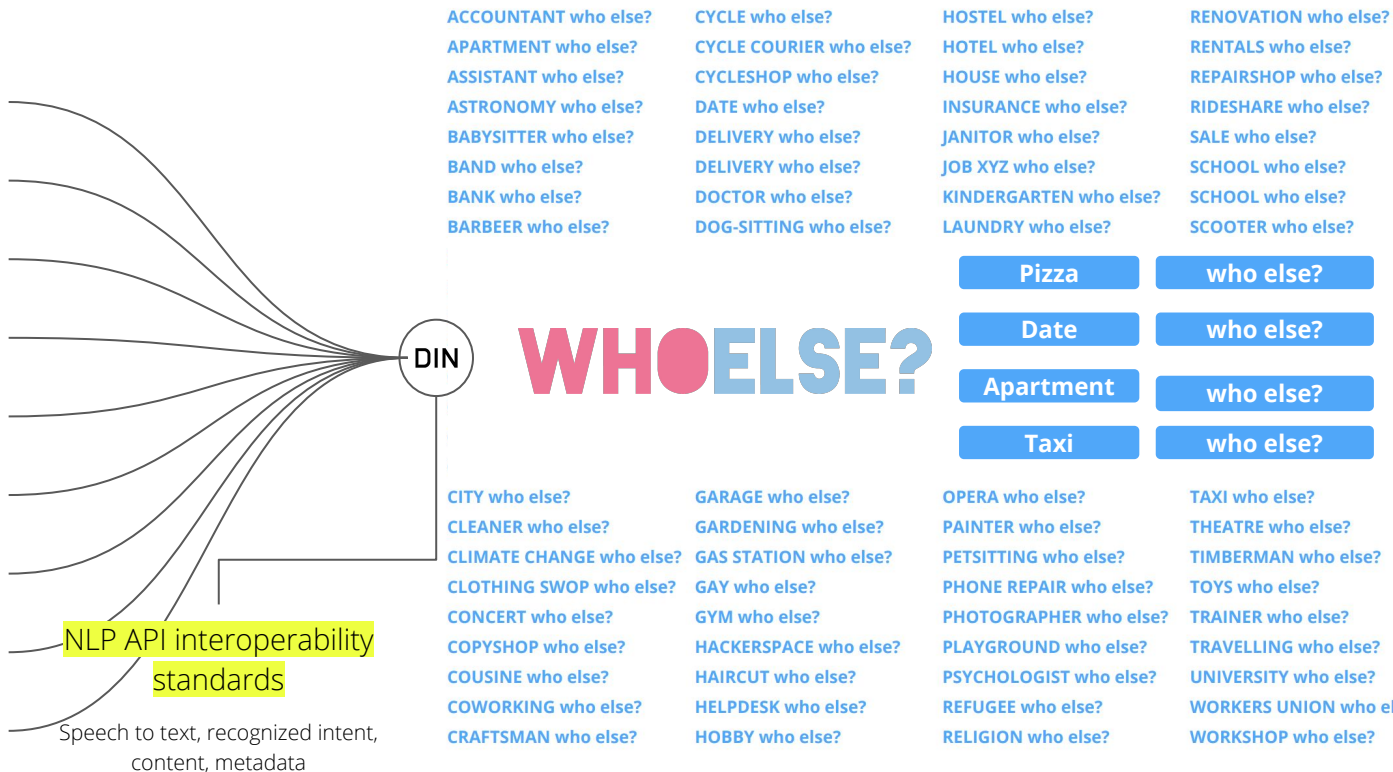
Omnibot



Houndify



Bosch



whoelse.ai

Technology: Keyword search catalog for spoken language

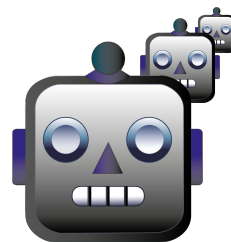


Natural Language

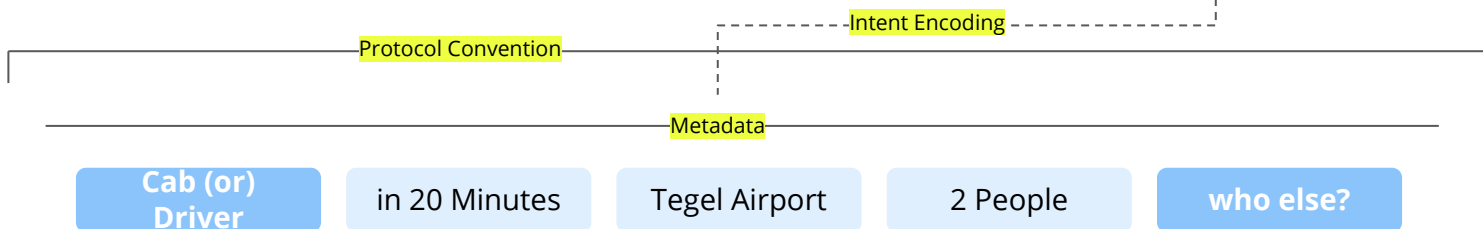
Hey AI, um., I need a ride to the Airport.

For me and my friend.

We need to be there at 16:45. Can you do that?



Language Catalog



WHOELSE?

APIs



Universal Grammar (UG) NLPs request a data schema to encode intents in a standardized format

Language Namespace (LNS) OEMs trade intents received from users by NLP integrations with e-commerce vendors

January 2020: DIN SPEC 2343 agreed on harmonized specifications of NLP APIs
The consortium defined (i) required, (ii) optional, and (iii) recommended data fields and API parameter formats for conversational AI technologies (e.g. chatbot and voice assistant technologies)



Intent:
Speech to Text:
Context:
Location:
Language:
Device:
Confidence:
...

[Google Doc](#) Status: Meeting 23.01.2020

Example use case: Motel 1 voice assistant

Hotels use smart speakers to check-in guests and provide additional amenities, services, and e-commerce offerings via a speech-based virtual assistant.



👤 Motel 1, check me in!

👤 Motel 1, set the room temperature to 26 degrees!

🤖 Ok, will do!

Omnibot AI

OEM-based services

👤 AI, find me a concert tonight!

👤 AI, I want to eat Greek today

🤖 Sure, here are nearby restaurants options!

Delivery Hero AI

On-demand platforms

👤 AI, how do I file VAT reimbursements?

👤 AI, I am relocating, who handles migration cases in Germany?

🤖 I put you in touch with our lawyer..

PWC AI

Conversational expert AIs

👤 AI, order me a iPhone charger

👤 AI, order me a Taxi for tomorrow

🤖 Your taxi pick-up has been scheduled

MyTaxi via Alexa

GAFAs-based services

How can intents be dispatched to voice AIs with different expertise?

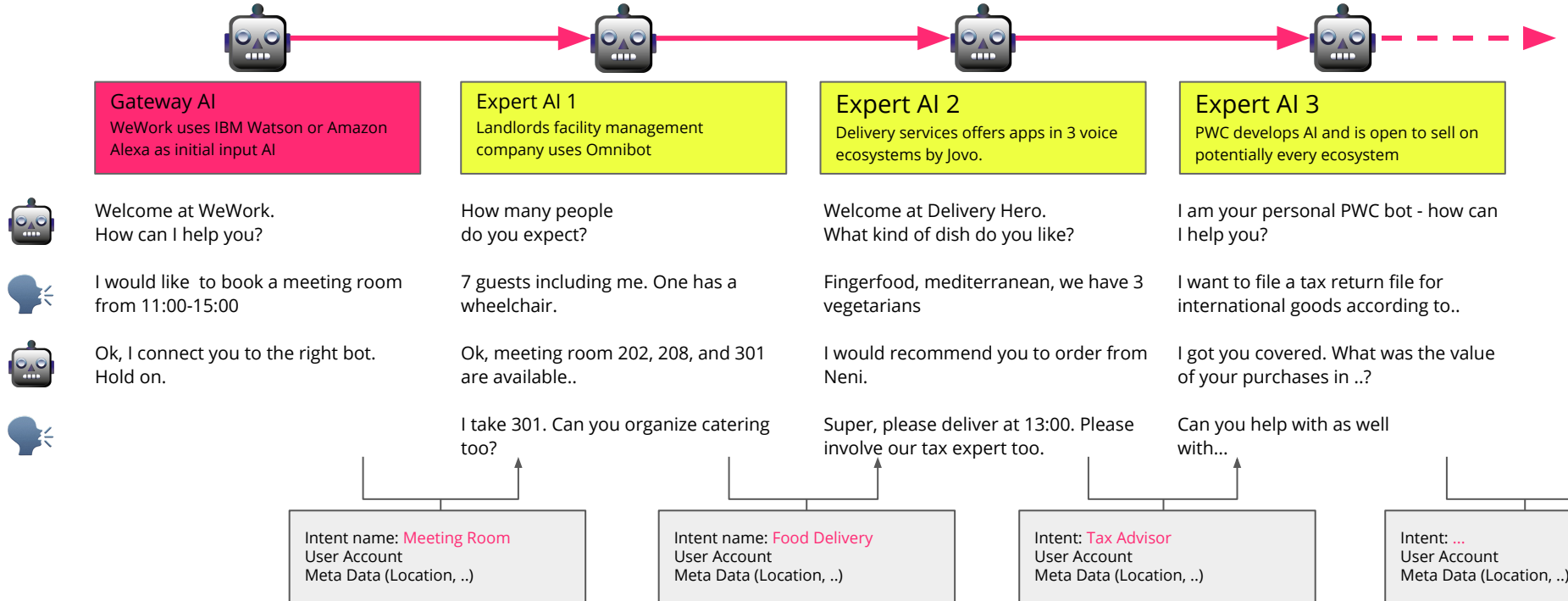


How can OEMs integrate voice AIs for different input languages?

Result of the DIN standard: NLPs can hand-over of voice commands (intents)

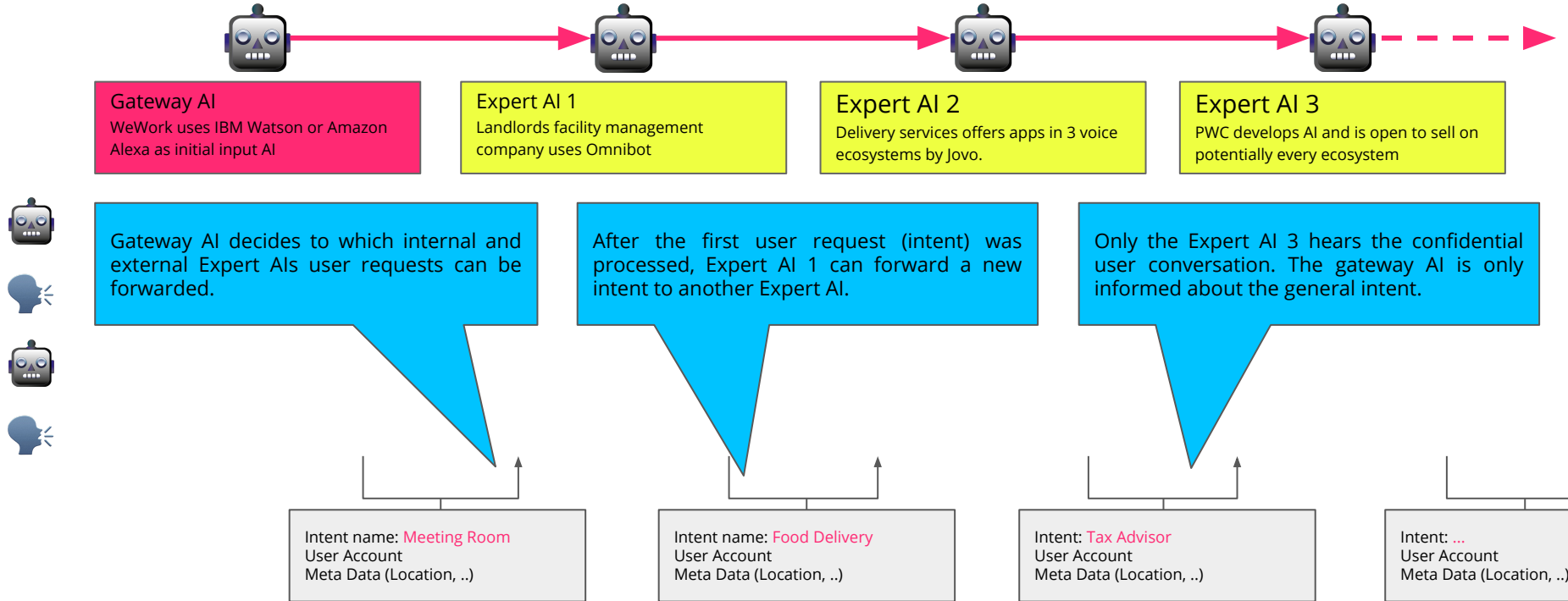
Conversational AI gateways forward the request to a NLP better suited to fulfil the request.

The expert AI can then forward a new request to the next expert AI.



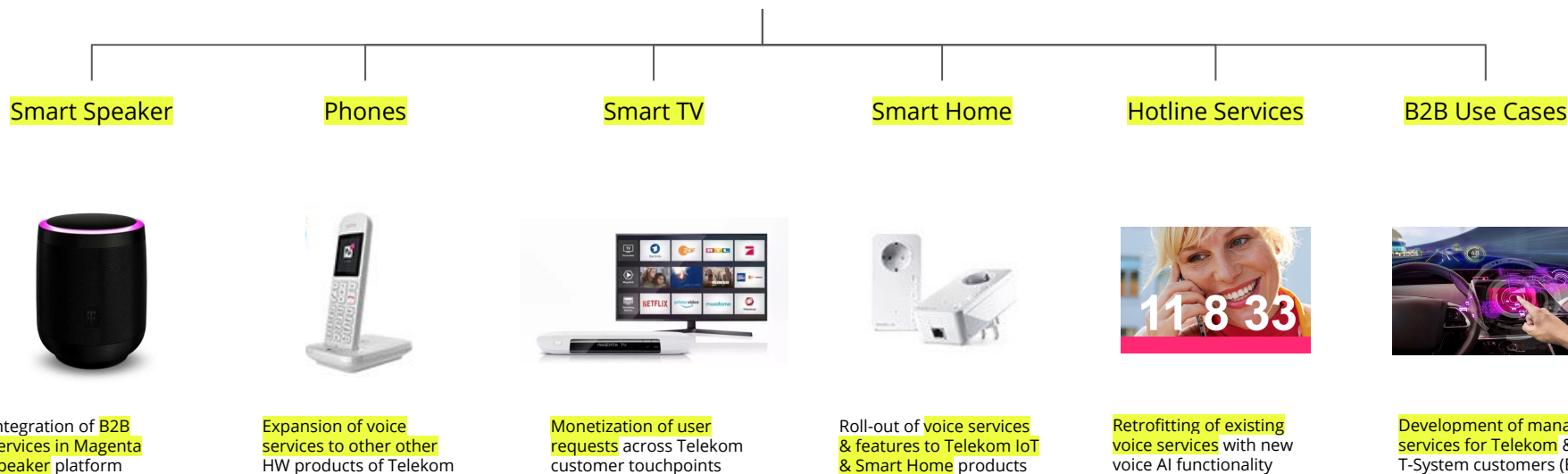
Privacy aspect: Gateway AIs do not need to know the content

“Can I help you anyhow else?” - “I can not do this, but I connect you with the right AI”. The DIN SPEC enables NLPs to forward intents by a standardized format.



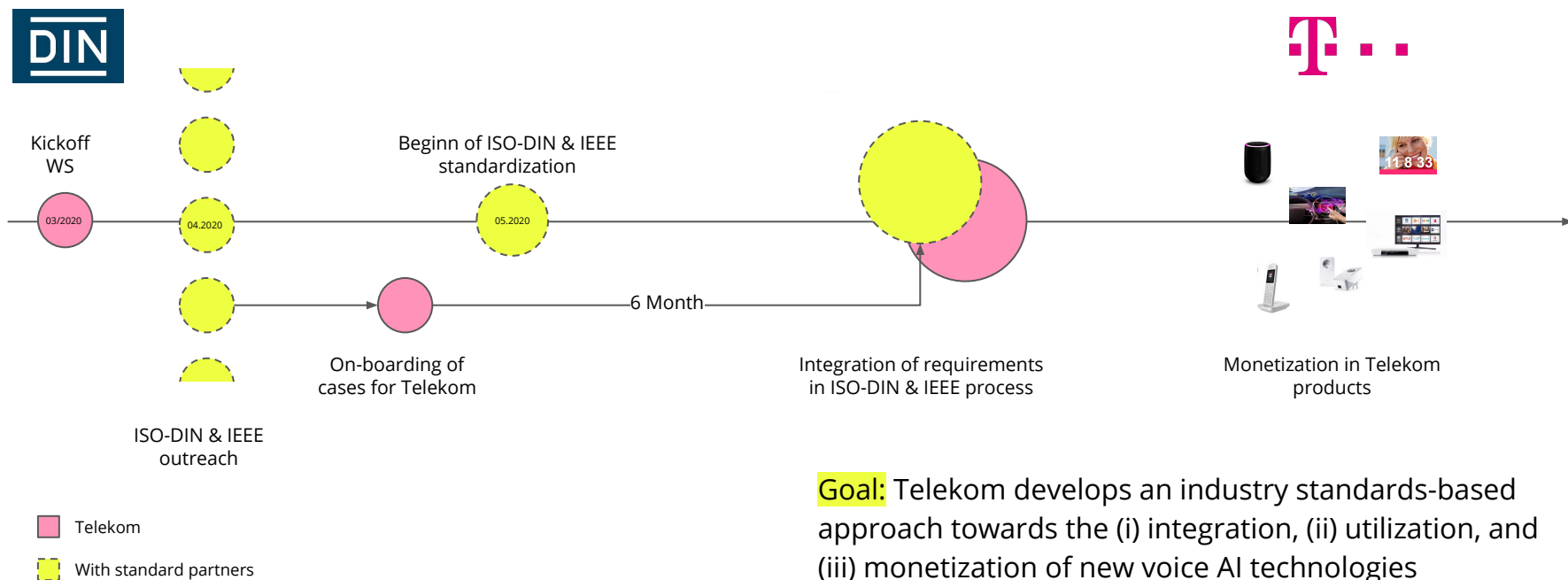
ISO-DIN NLP standards are relevant for all Telekom products

OUTLOOK & BENEFITS



Telekom expands access to voice technologies by standards partnerships

ISO-DIN TIMELINE



Goal: Telekom develops an industry standards-based approach towards the (i) integration, (ii) utilization, and (iii) monetization of new voice AI technologies