



You make **possible**



# Artificial Intelligence and the future of Cisco Contact Centers

Massimiliano Caranzano

EMEAR Product Sales Specialist

**CISCO** *Live!*

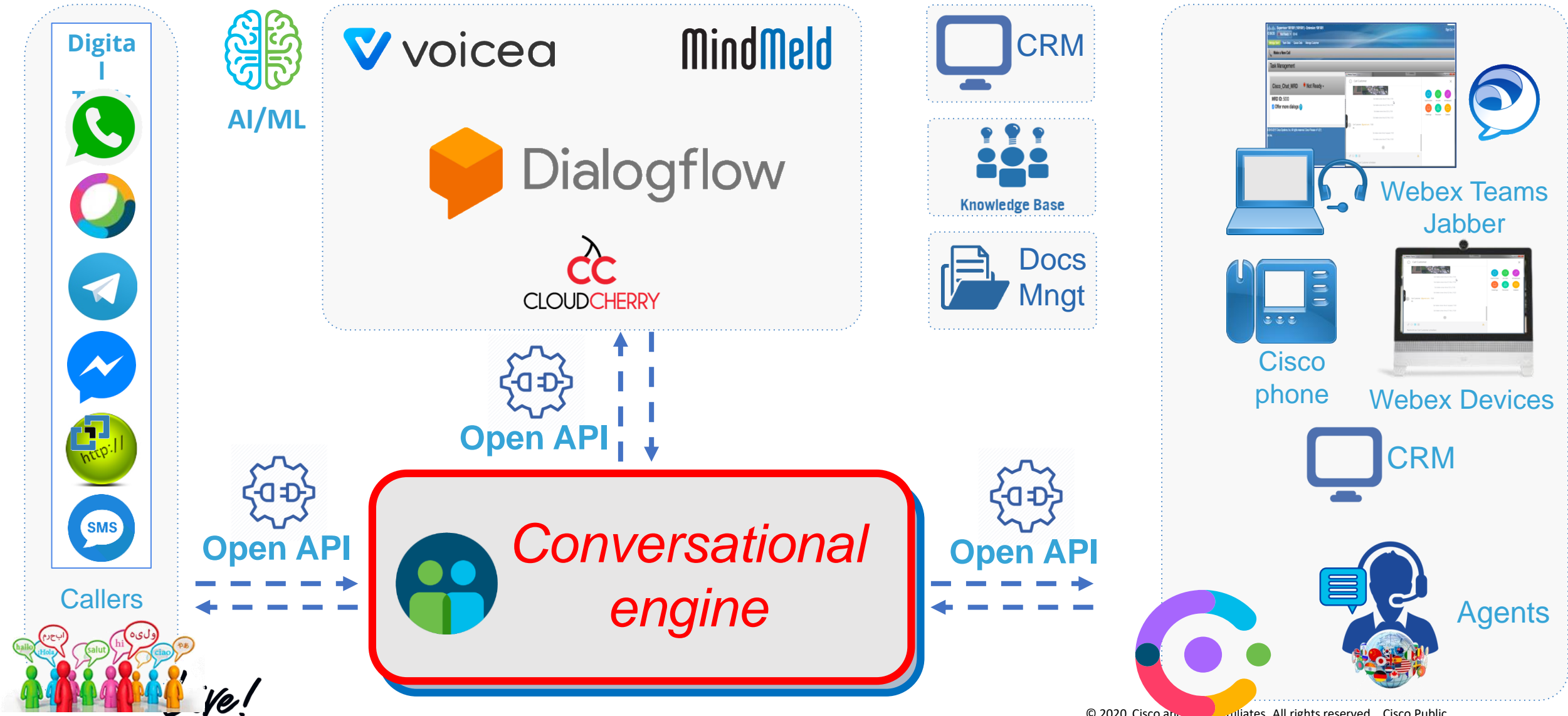
Barcelona | January 27-31, 2020



PSOCOL-1317

# An open architecture for modern Contact Centers

# Contact Center architecture for automation of complex Business processes



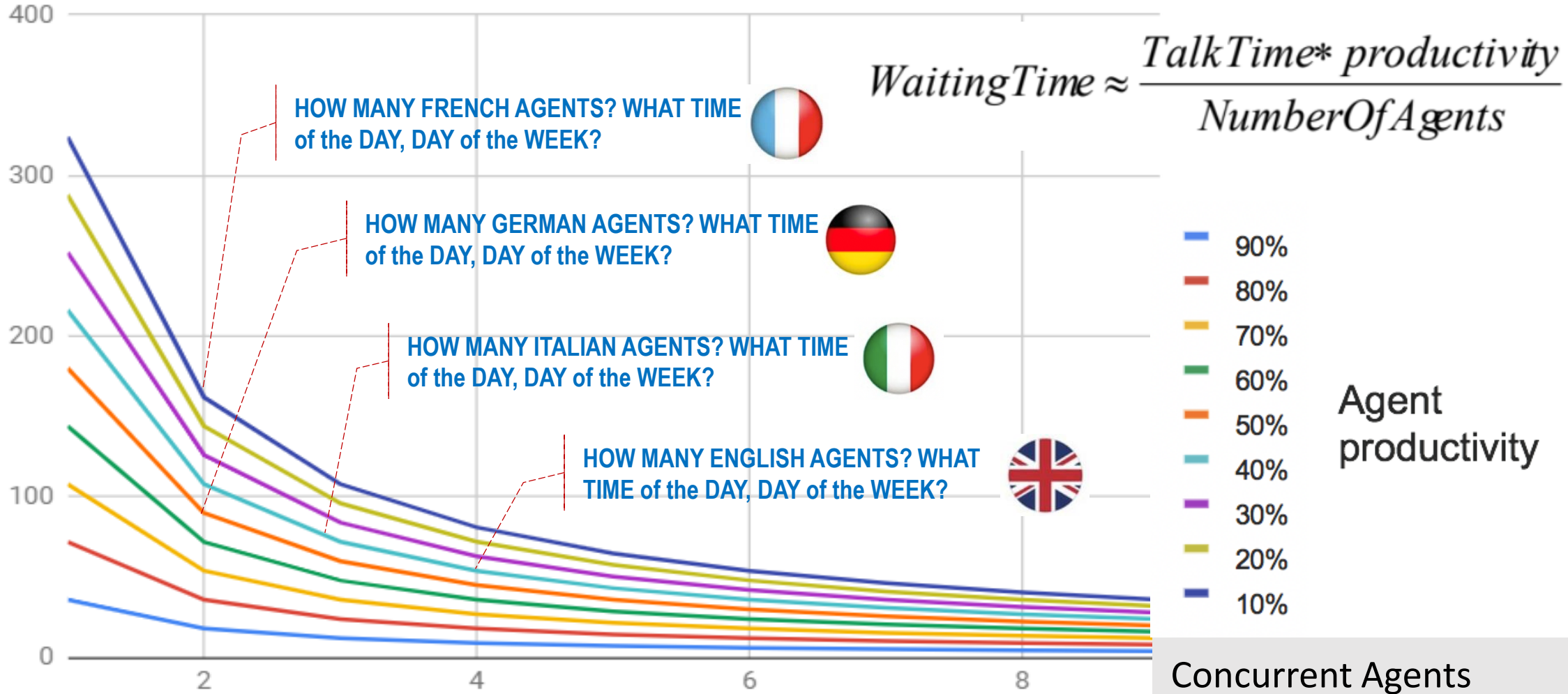
Agent Assistance  
Services:  
Chat translation  
service

Welcome to the WORLD... of GLOBAL business!



# WFO in a Digital International Contact Center: the Erlang C nightmare!

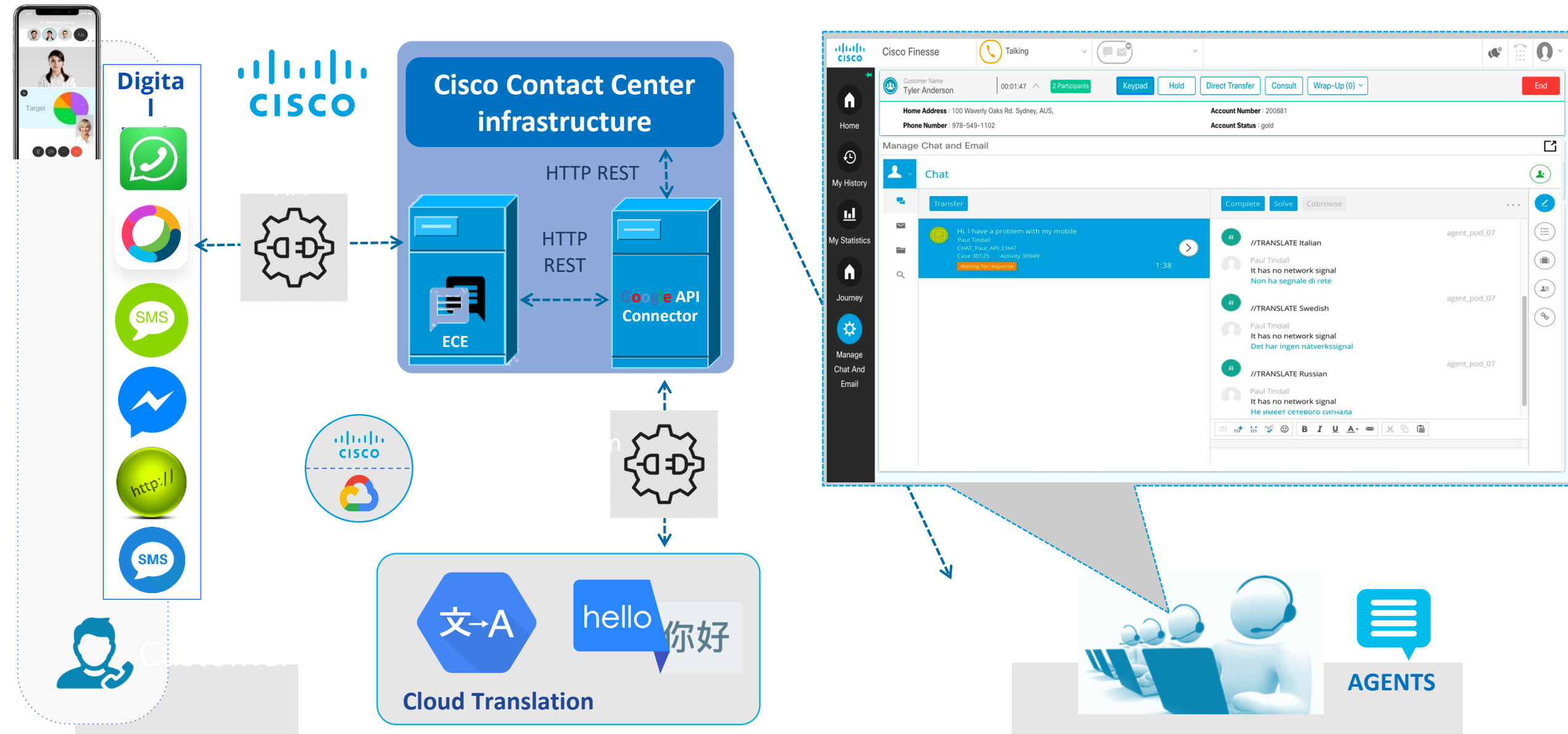
Waiting Time (sec)



Concurrent Agents



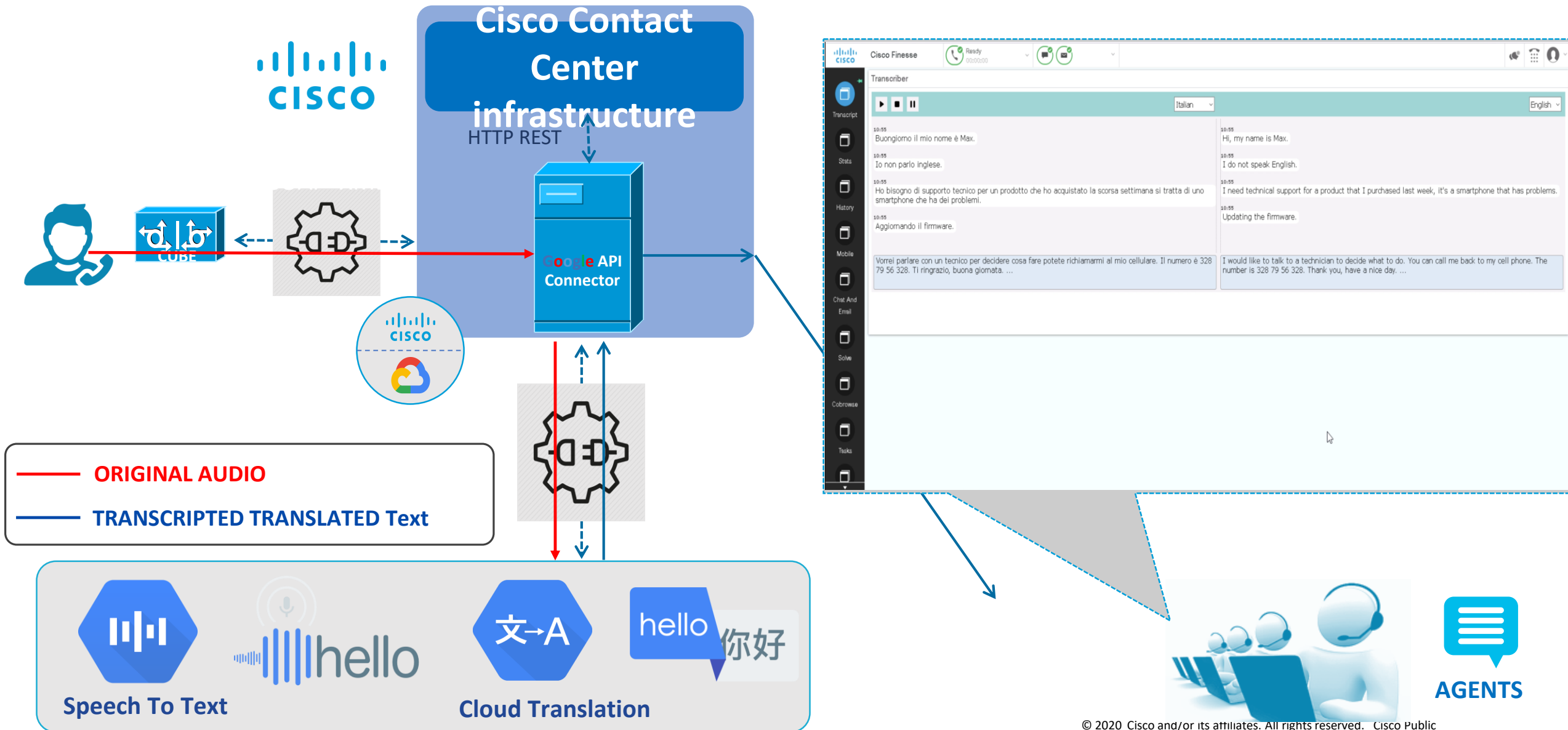
# Chat Translation assistance architecture







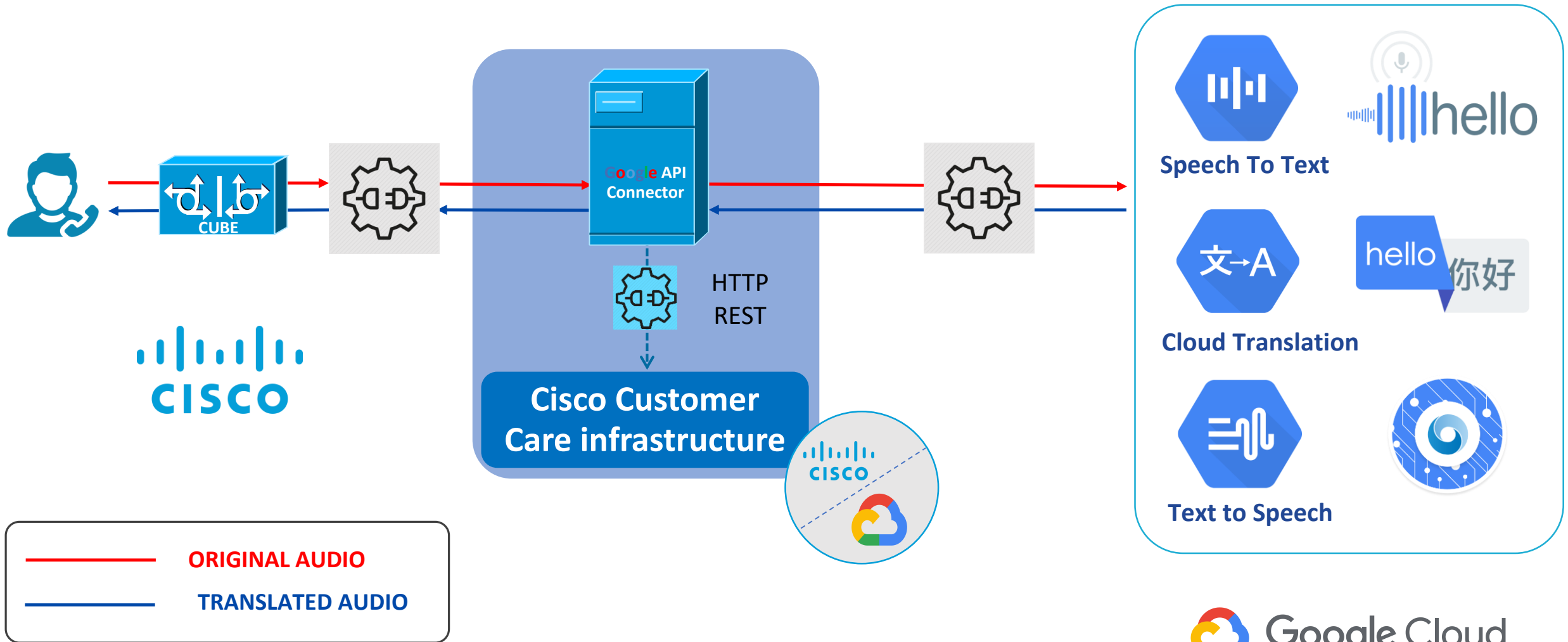
# Voice Transcription & Translation assistance architecture



Vision:  
Live Audio  
Translation services



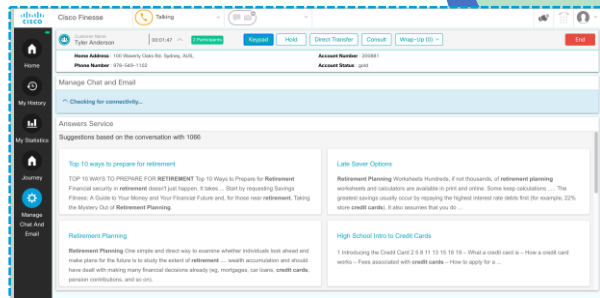
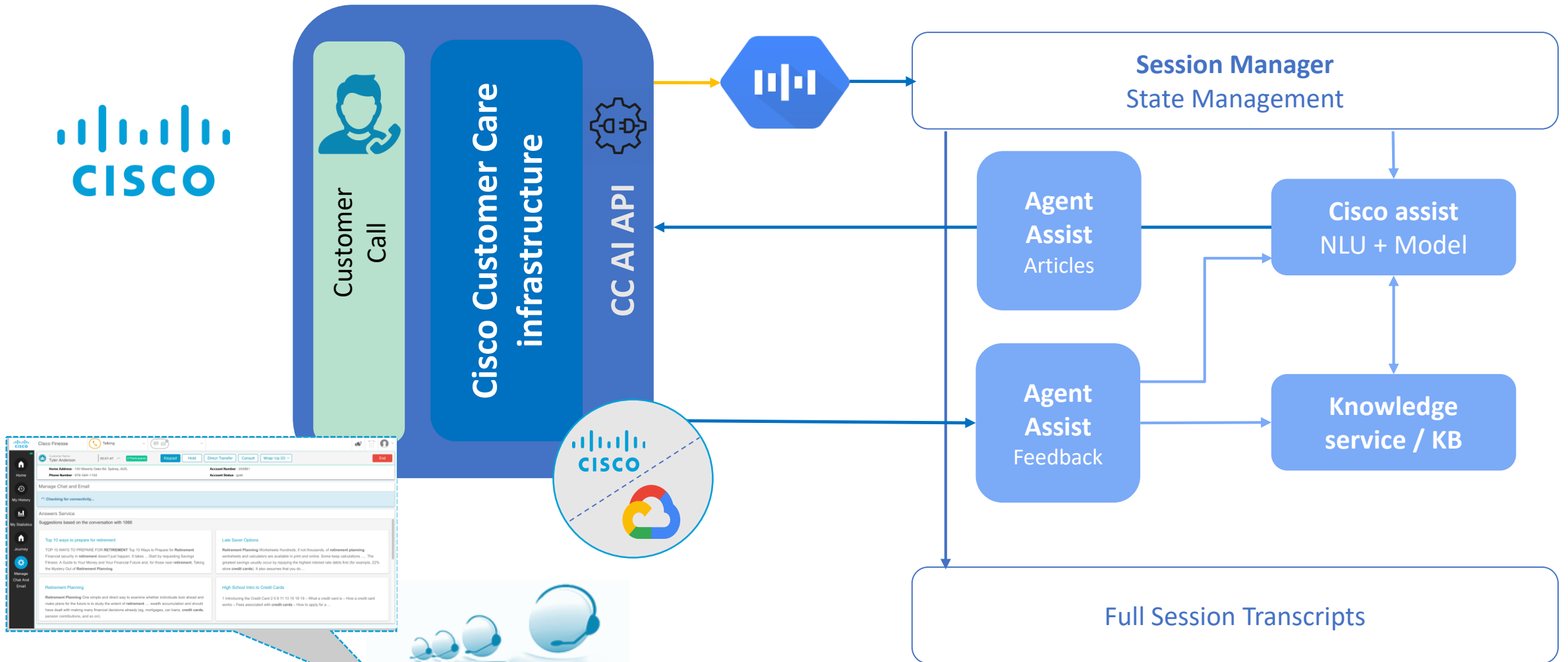
# Voice Translation echoing architecture



*CISCO Live!*

Agent Assistance  
Services:  
Knowledge base look  
up

# Cisco ANSWERS agent assistance

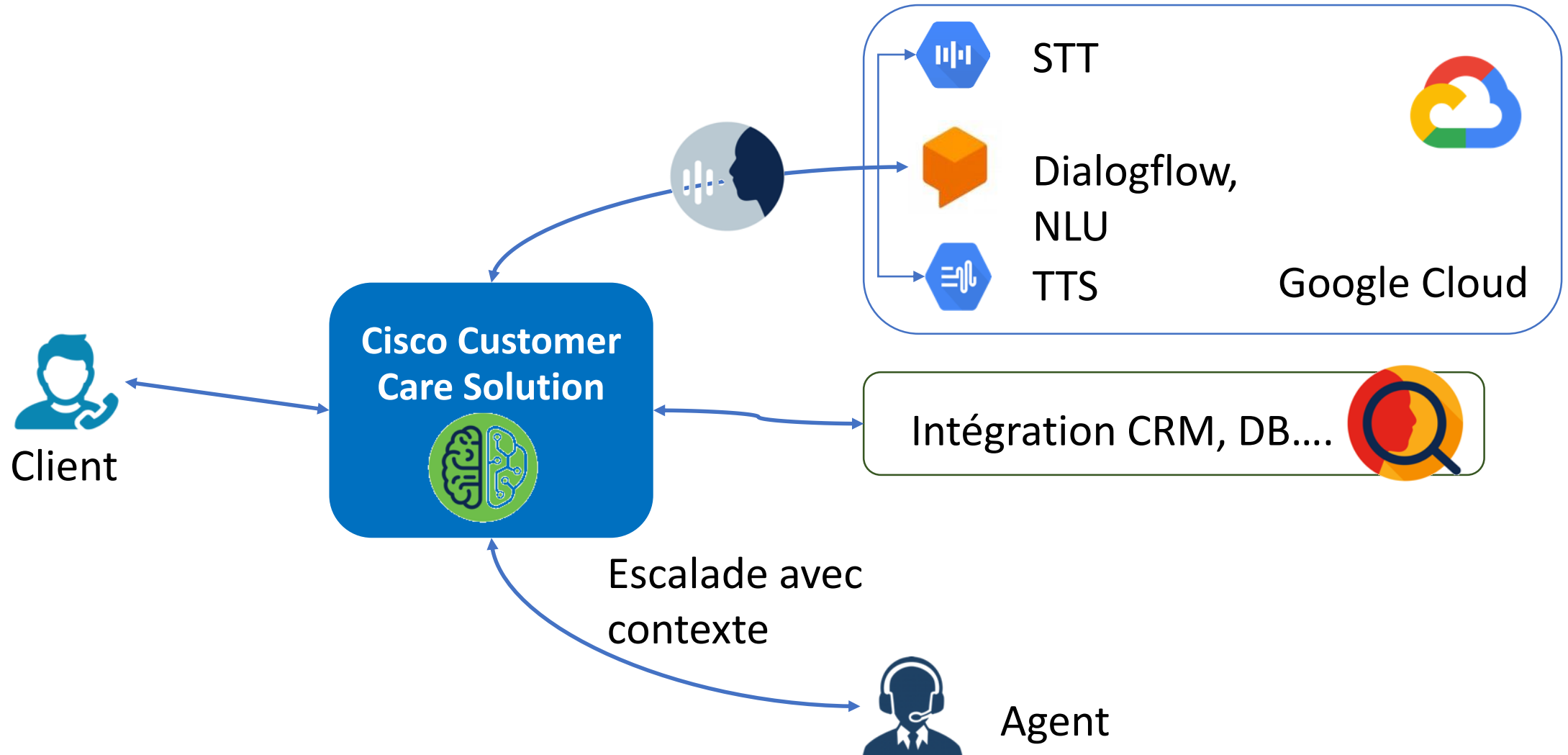


**CISCO** Live!

# Virtual Agent



# Cas d'usage Assistant Virtuel - Vocal



# Cas d'usage Assistant Virtuel - Vocal



Client

Je veux déclarer un sinistre auto...

....

Où en est mon dossier ?

Je souhaiterais parler à un expert

Bonjour, comment puis-je vous aider?

Votre Sinistre est déclaré dans notre système

Votre dossier est en cours de traitement

Je vois à quel sujet vous nous contactez



Assistant virtuel

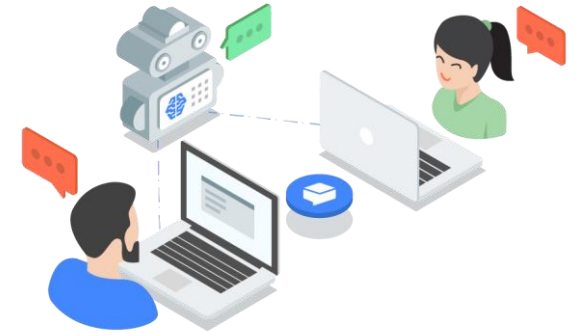


Agent



Thank you





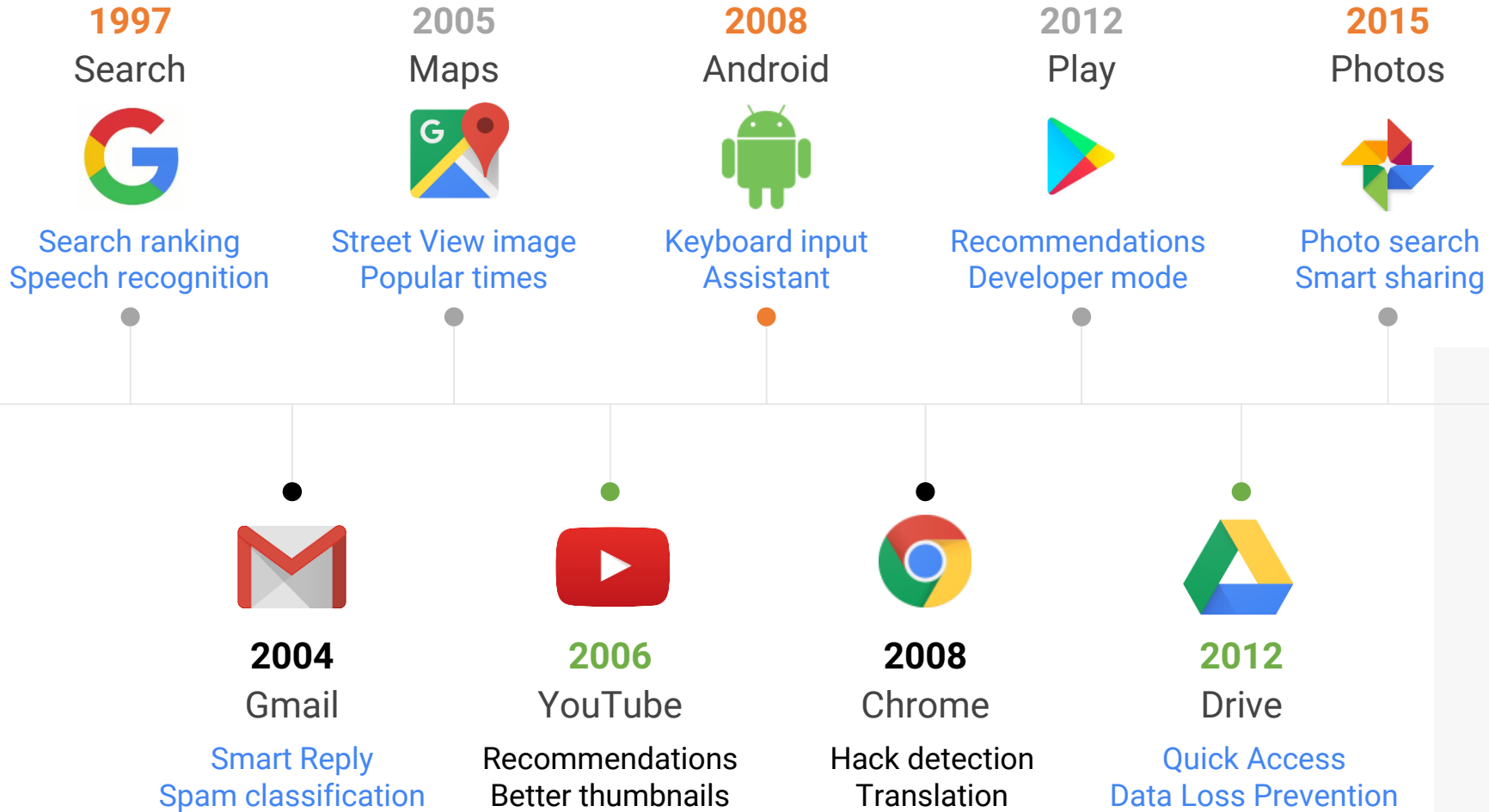
# Contact Center AI

Built with Google's human-like conversational AI



Dominique Pfeffer,  
CCAI Technology Partners  
Lead

# Our products are how we innovate



9

Billion User  
Applications



100%

Machine Learning  
Powered



# Introducing Cloud AI

## Cloud AI solutions



Cloud Job Discovery



Contact Center

New



Document Understanding

## ML professionals & service partners



ASL



Professional Services Organization

## Cloud AI building blocks

### Language



Cloud Video Intelligence



Cloud AutoML Vision



Cloud Vision



Cloud Natural Language



Cloud AutoML NL

New



Cloud Translation



Cloud AutoML Translation

New



Cloud Speech-to-Text



Dialogflow Enterprise



Cloud Text-to-Speech

Vision

## Cloud AI platform

### ML accelerators

### ML libraries

### Kaggle/datasets



Cloud ML Engine



Cloud Dataflow



Cloud Dataproc



Cloud TPU



Cloud GPU



Tensorflow



Kubeflow



Spark



beam



R



TORCH



K



Spark MLlib



learn

kaggle



Datasets

Machine & Deep Learning

Less ML expertise

More ML expertise



Providing a consistent, high quality experience is expensive

\$

- Average cost/call = \$10-15
- Agent turnover/churn & training challenges
- Lost upsell opportunities





But you've had to make a **tradeoff** between great customer support and operational efficiency.

Until now.



Think of the core as the 'brain'

**Understand**

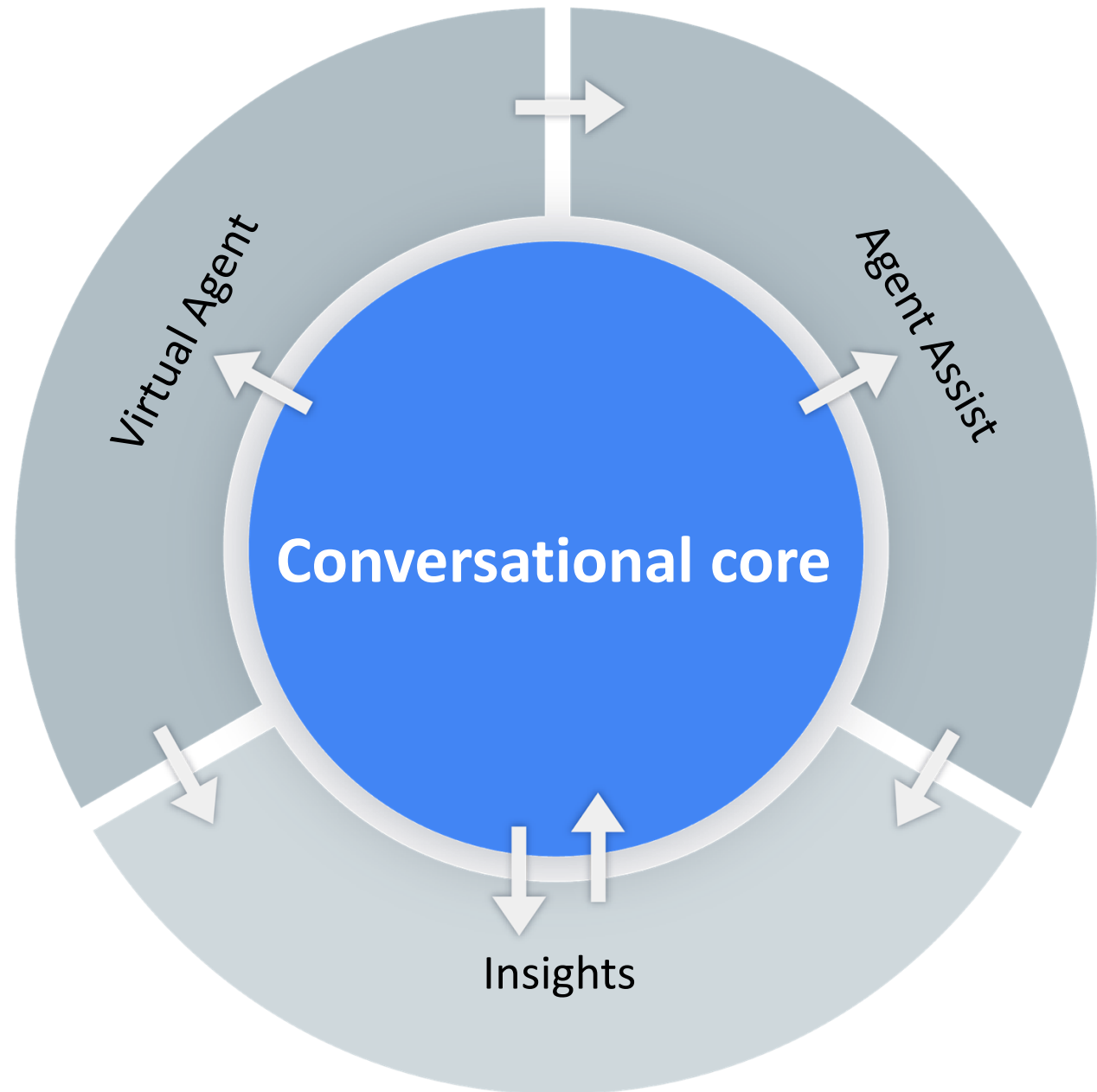
- Speech-to-text
- NLP/NLU

**Talk**

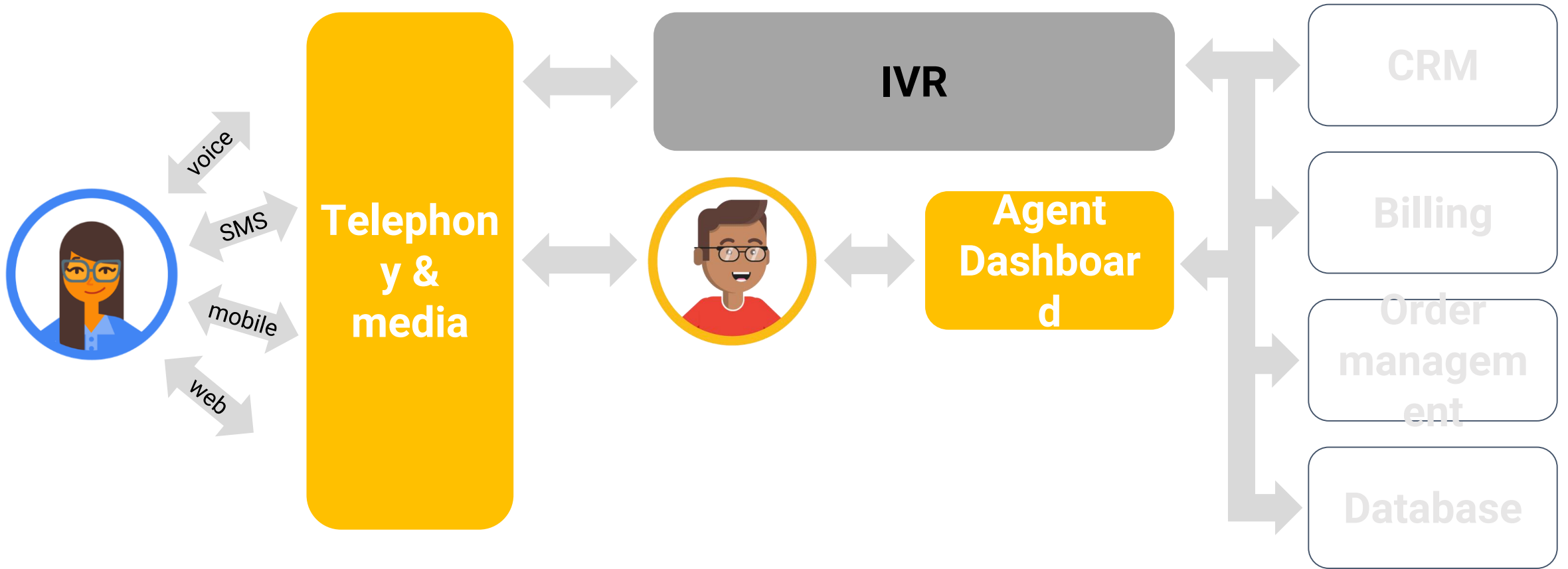
- Text-to-speech

**Interact**

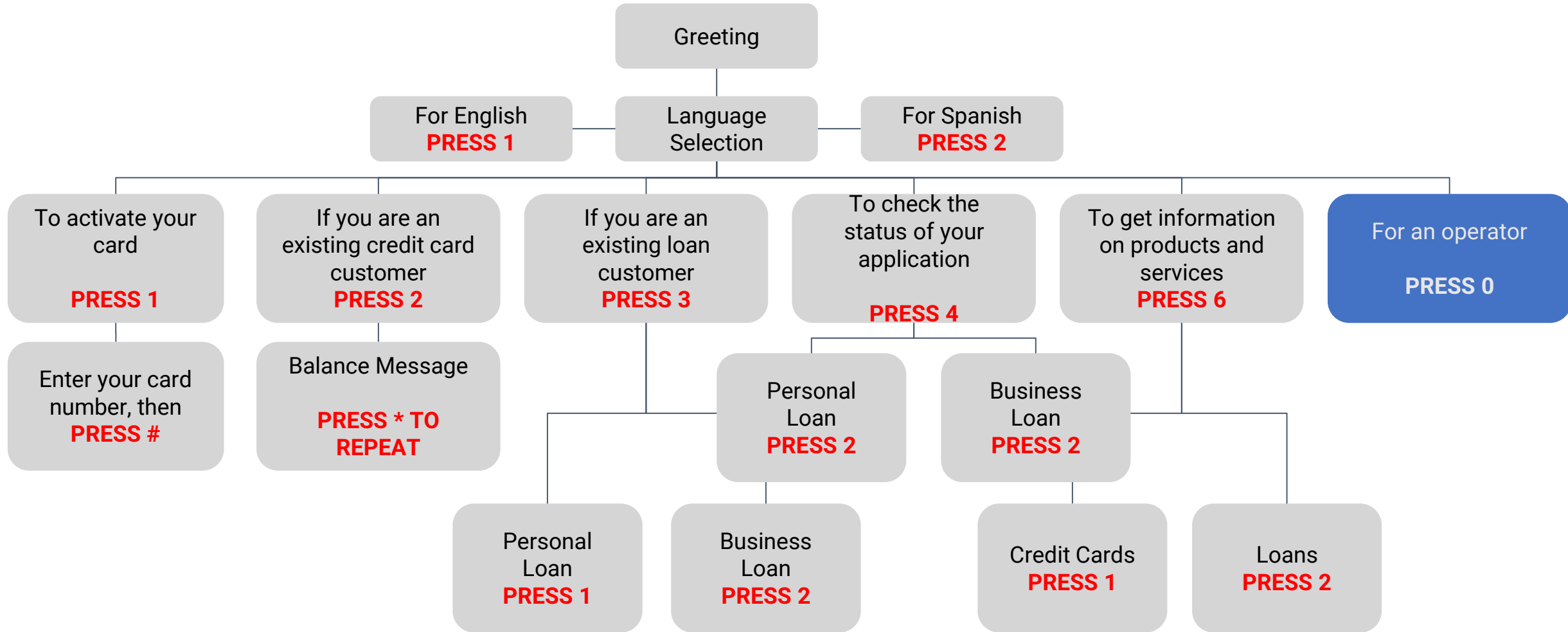
- Dialogflow



# Contact center architecture



# IVR purgatory





## Problems

- Navigating a complex IVR tree is a terrible customer experience.
- Customers may drop off before completing their request.
- Customers learn to find the escape route (“Operator”) to talk to a human anyway.
- The agent often doesn’t have the context from the IVR so the customer has to repeat the information.
- Companies often have 10s, 100s or 1000s of different numbers - which one to call?
- Trained human agents provide the best customer experience, but they’re expensive.



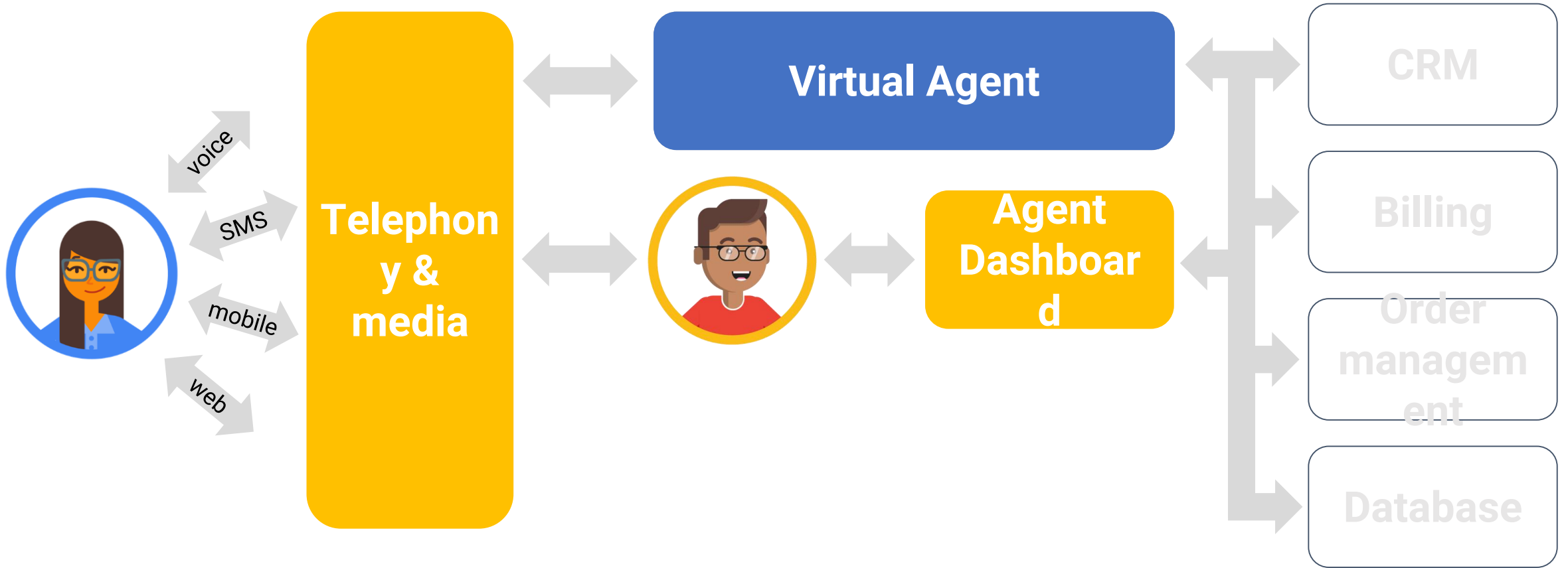
# Virtual Agent

## **Solution**

Gives customers 24/7 access to immediate conversational self-service, with seamless handoffs to live agents for more complex issues.



# Contact Center AI architecture







# Agent Issues

## Problems

- Agents don't have context from the caller
- Relevant information can be scattered across documents, CRM systems, databases, etc
- Every extra second an agent spends looking up information increases costs
- Products & services change frequently, and agent training often doesn't keep up
- Training agents is expensive
- Call center staffing turnover is significant





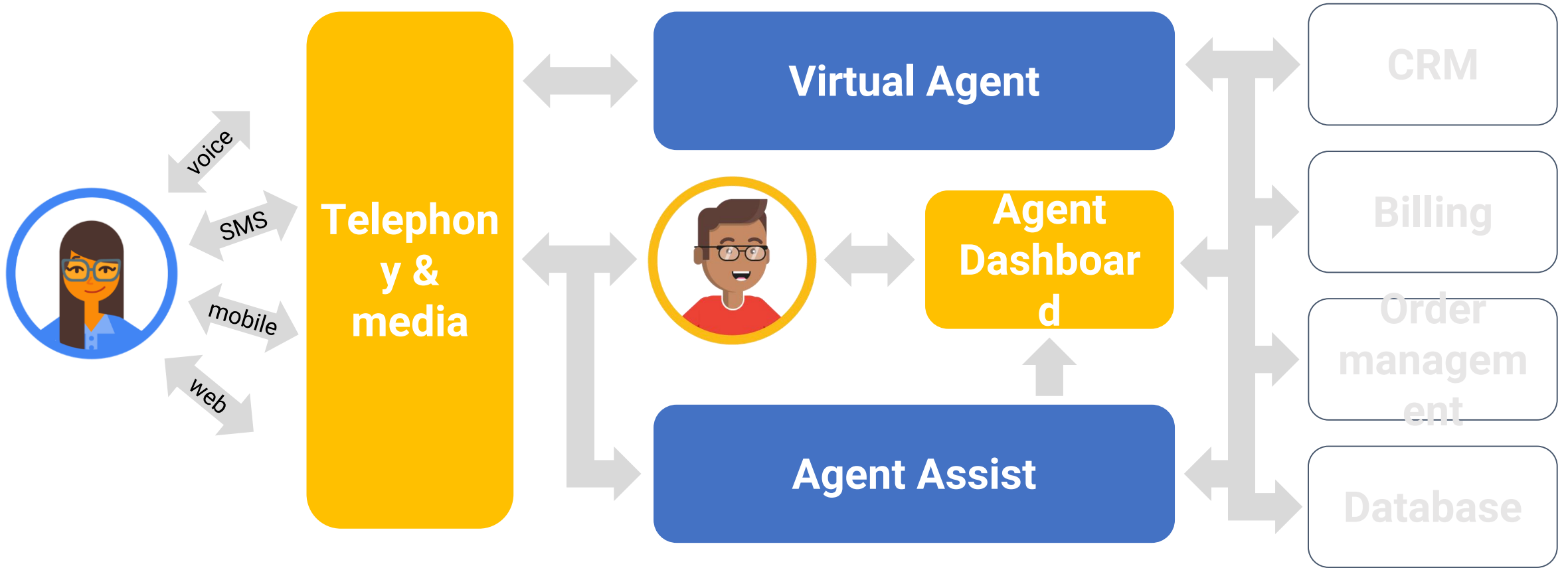
# Agent Assist

## **Solution**

Empowers agents with continuous support during their calls by identifying intent and providing real-time, step-by-step assistance.



# Contact Center AI architecture





## Visibility Issues



### Problems

- Companies have little insight into customer concerns
  - Emerging problems
  - Market changes
  - Customer sentiment, positive or negative
  - Product interest
- Companies also have little insight into their call center attributes
  - Agent performance: Who's doing better?
  - What makes customers happy or unhappy?
- Companies need to track compliance: Are agents saying the right things?

COMING SOON!



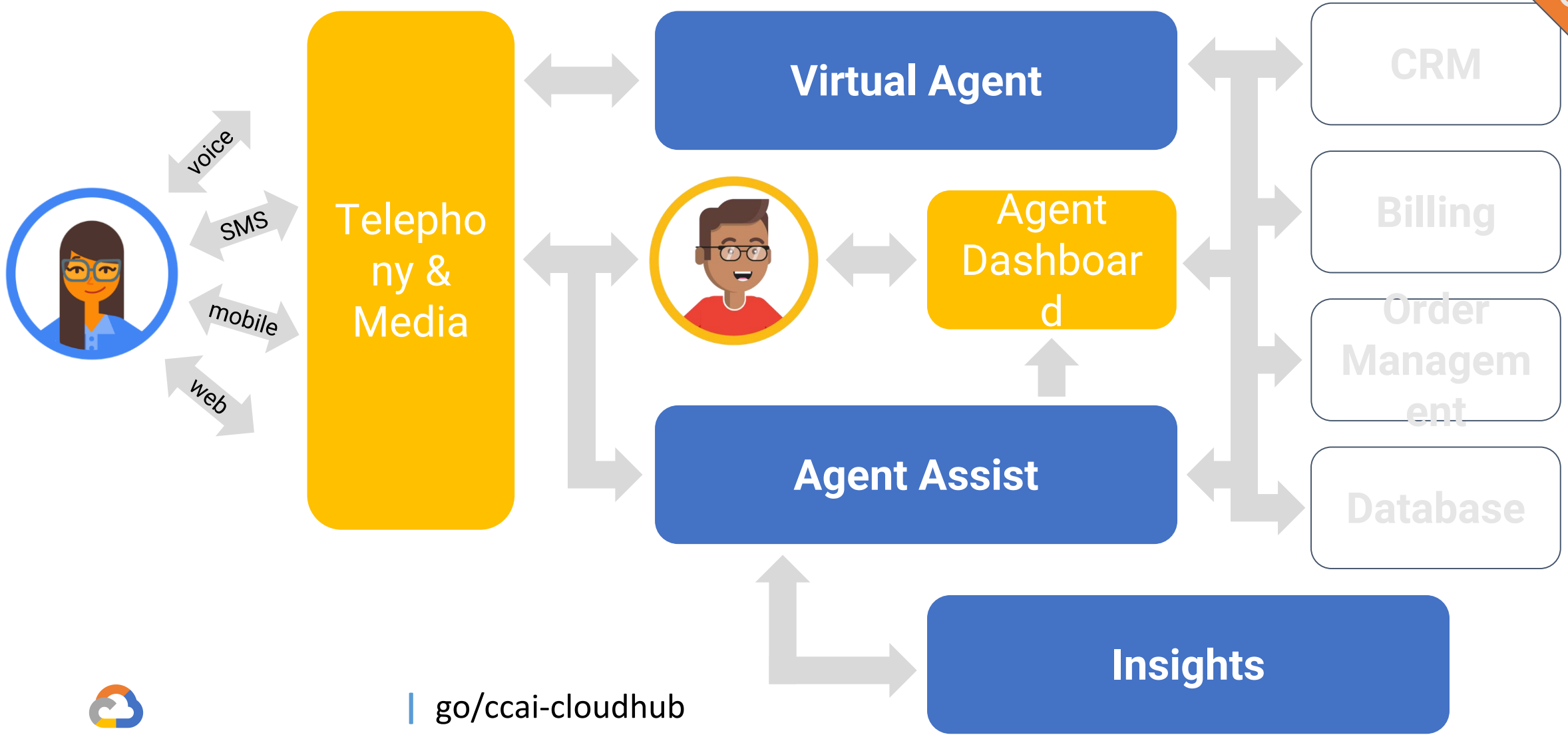
## Solution

Uses natural language processing to identify call drivers, sentiment and other KPIs that help contact center managers learn about customer interactions to improve call outcomes.



# Contact Center AI architecture

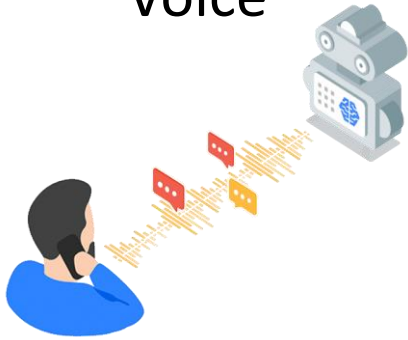
COMING SOON!



| [go/ccai-cloudhub](https://go.ccai-cloudhub)

## Dialogflow

Virtual Agent &  
NLU for Chat and  
Voice



**GA for over 2 years**  
1.2M Dev signed up  
32 languages for Voice  
1300+ paying Enterprises  
187 Voices (92 Wavenet)

## Agent Assist

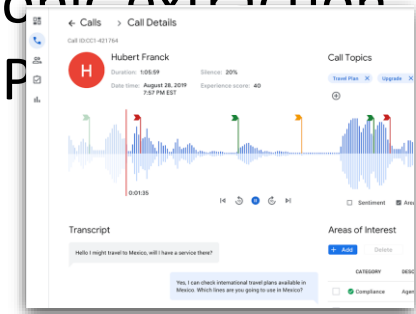
Live call  
transcription  
Doc suggestions  
Agent assistive



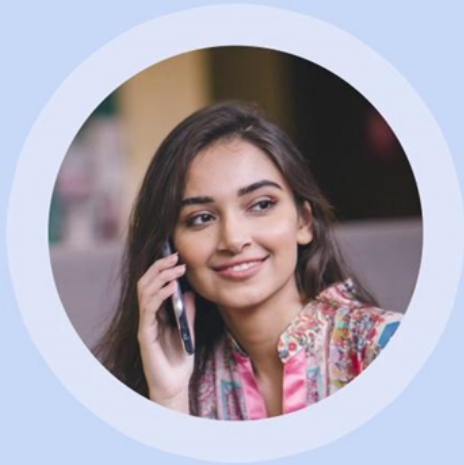
**Just launched GA in Nov**  
Sold via CCAI Telephony Partners  
eg Cisco

## Insights AI

Call search, scoring,  
and sentiment  
analysis  
Topic extraction  
For P &



**In design phase**  
Scheduled for 2020



Prisha Aggarwal  
Call ID: CC1-421764







## About Marks & Spencer

A leading U.K.-based multinational retailer with nearly 1,000 stores.

## Challenges

Receives millions of customer calls per year about thousands of different topics. Understanding, routing, and responding appropriately to each and every one is critical for customer satisfaction and operational efficiency.

## How Google Helped

[intent detection](#)

[Dialogflow Enterprise Edition](#)

[Google Cloud Contact Center AI](#)

[text](#)

### **Routed +6M calls**

Within 9 months

### **Saved +10 sec AHT**

With automated call disposition that mean advisors no longer had to record the Reason for Contact (RFC)



**Thank you**



# IA ET RELATION CLIENT

REPENSER L'EXPÉRIENCE CLIENTS  
À L'ÈRE DE L'AUGMENTÉ

Intervention de Stéphane Schoder  
22 janvier 2020

## Repenser l'expérience client à l'ère de l'augmenté - Facteurs de réussite



Penser « métier » ... et « technologie »

Anticiper les « attentes clients »

Appréhender tout le potentiel de l'IA

Identifier les « bons » cas d'usage

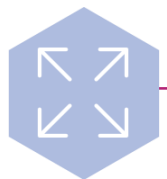
Penser « omnicanalité » des parcours

Accompagner les changements

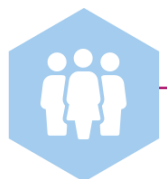
Anticiper les « attentes clients »



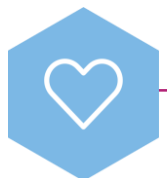
L'HYPER SIMPLICITE



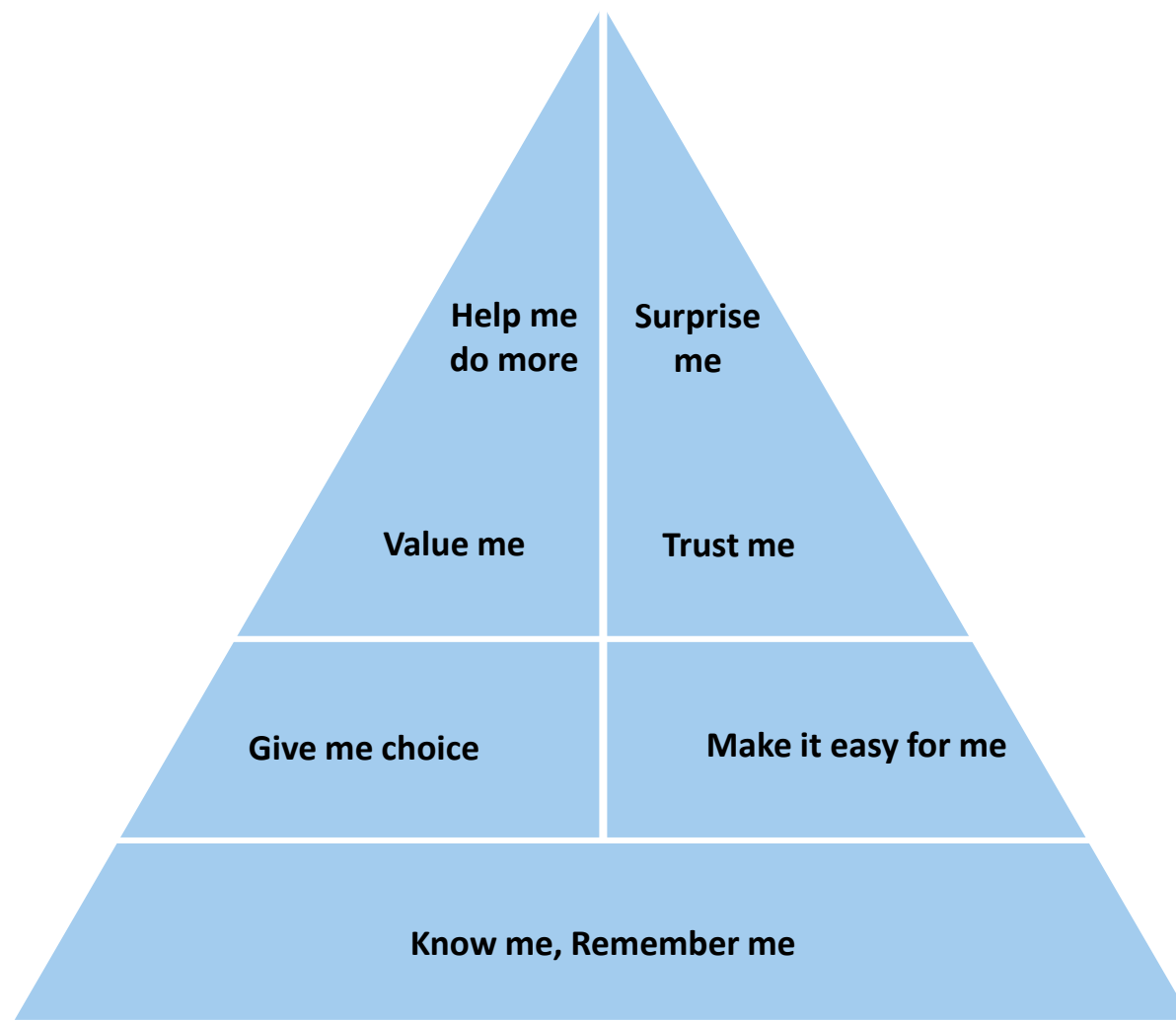
L'IMMEDIATETE



L'HYPER CHOIX



LA RELATION VRAIE



### Appréhender tout le potentiel de l'IA



#### Client « augmenté »

- Any Time Any Where Any Device
- Autonomie
- Innovation



#### Conseiller « augmenté »

- Polyvalence, FCR
- Valeur ajoutée
- Intelligence émotionnelle



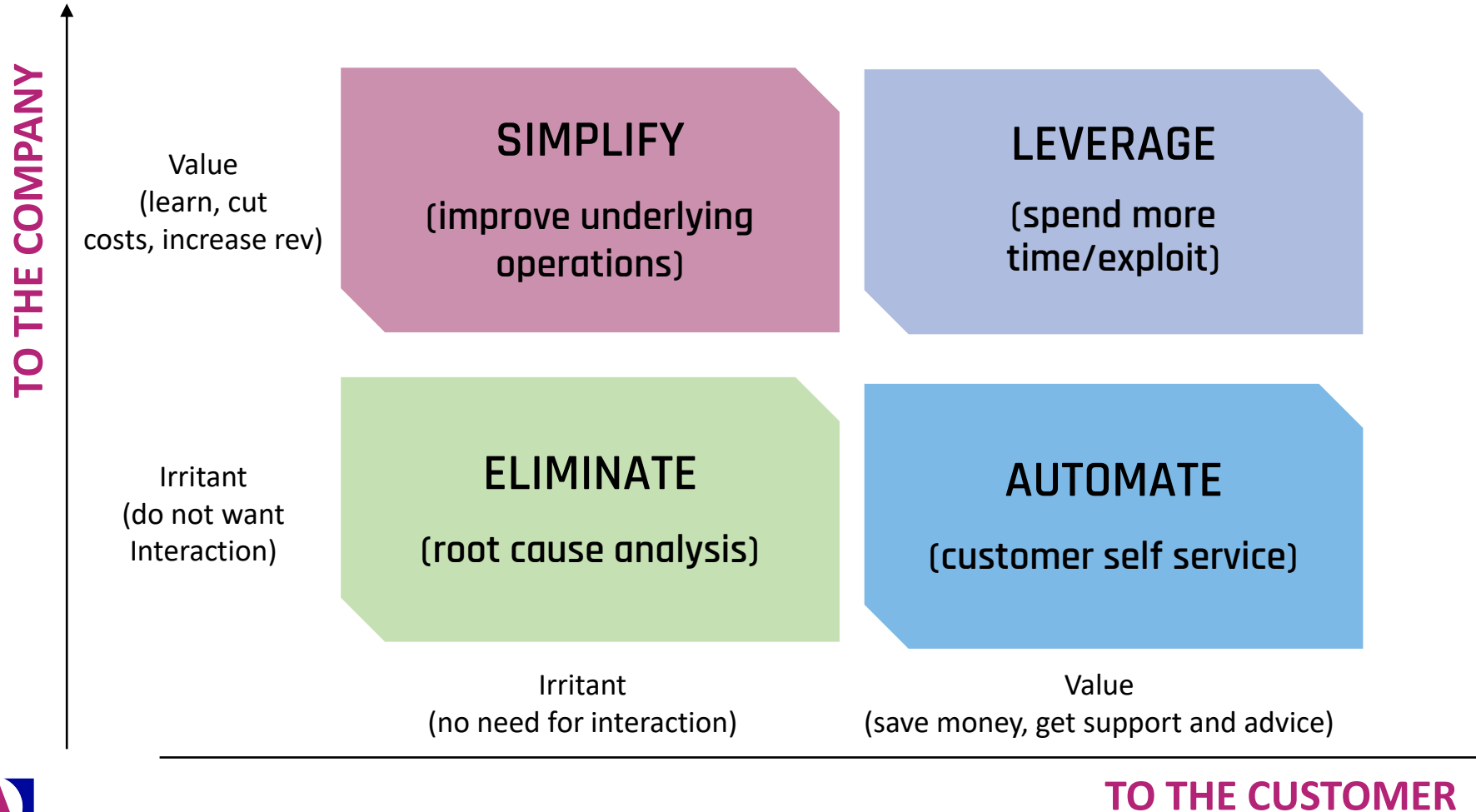
#### Analytics

- Personnalisation
- Prédiction
- Proactivité



# IA ET RELATION CLIENTS

Identifier les « bons » cas d'usage



BILL PRICE & DAVID JAFFE

## THE BEST SERVICE IS NO SERVICE

HOW TO LIBERATE YOUR CUSTOMERS FROM CUSTOMER SERVICE, KEEP THEM HAPPY & CONTROL COSTS





## Penser « omnicanalité » des parcours



L'IA n'est pas une finalité

Parcours clients VS.  
User experience

Expérience client  
« sans couture »

Amélioration continue



## Accompagner les changements



PLUS D'INTELLIGENCE ARTIFICIELLE,  
C'EST PLUS D'HUMAIN

... au sein de l'organisation

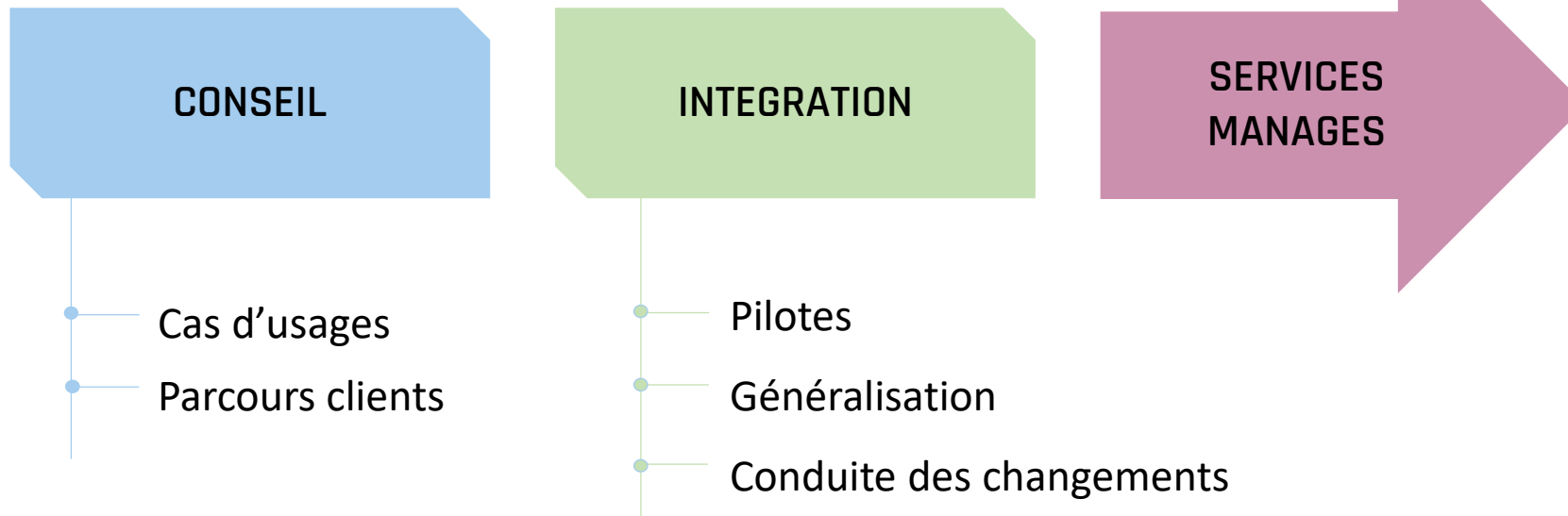
... auprès des collaborateurs

... auprès des clients

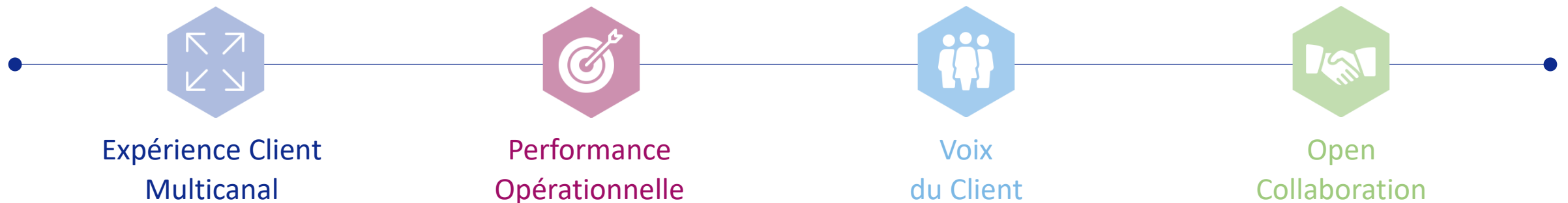
... dans la durée

# IA ET RELATION CLIENTS

## Une réalité opérationnelle



## Accompagner nos clients vers l'excellence relationnelle



Merci pour votre attention

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Nous suivre :



[www.activeo.com](http://www.activeo.com)

[www.logepal.fr](http://www.logepal.fr)

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Nous contacter :

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