

# **Cognitive Contact Center**

### **Catalyst Project**

May 14-17, 2017 – Nice, France













#### Catalyst Partner Eco-system





Project Leader Systems Integrator everis Virtual Assistant Unified Service Desk



API Management API Portal Service Virtualization

Telefonica

**Project Champion** 





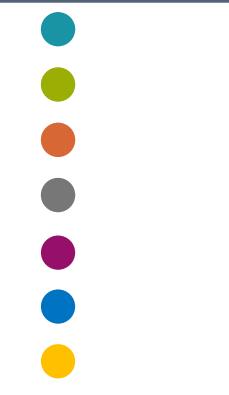
Voice Recognition Text To Speech



Service Management Platform (HADA)



# \_Market Drivers



### Market Drivers



#### The 2020 CSP: end to end digitalization

- We live in a Digital World where technology, the new "how" of doing things and being customer centric have become a success key factor
- The Telecommunication Industry is aware of this digital wave where **digital giants OTTs have shaken the status-quo** capturing incomes and hitting CSPs margins
- At the same time, CSPs face the challenge of **fulfill digital natives** and non-natives expectations and reduce operational costs
- Today technological disruptions, industries convergence, CSP global scale scalability and brand value represent a great grown opportunity for CSPs

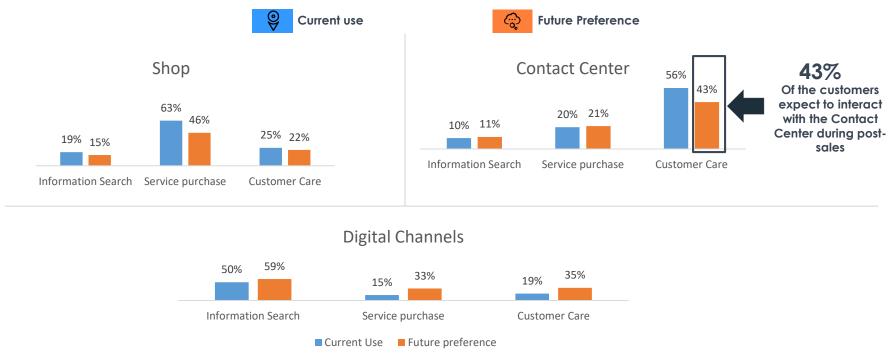
To make it happen, CSPs must become <u>a real player in the Digital World</u>ensuring the Customer Engagement

### Market Drivers



#### The 2020 CSP: assuring the engagement with customer

Telecom customers expect to duplicate the use of digital channels but at the same time, they consider the **Contact Center as the preferred channel** for **customer care** interaction in the future





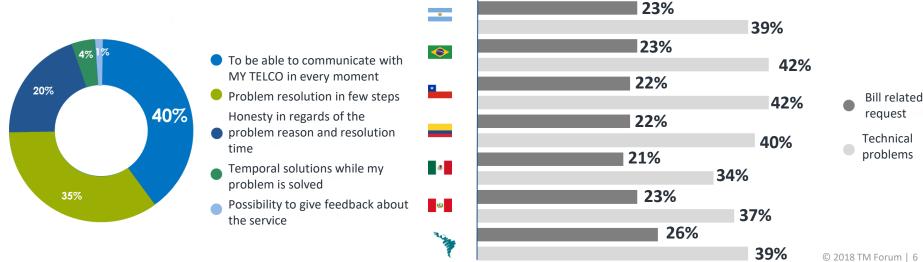
#### The 2020 CSP: ensuring the engagement with customer

DURING post-sale, customers seek care in every moment and agility; this puts a demand on CSPs to be proactive and to anticipate problems

Required more than one

interaction to solve problems or never were solved

#### What aspect do you value the most of the customer care?



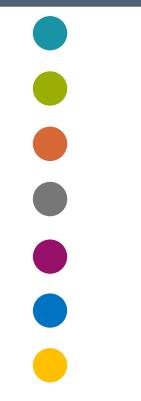
SOURCE: Connected Telco LATAM, market Research done by everis based on 3600 interviews to telecommunication users, 2017

#### Main causes of customer interaction:

47%



## \_the challenge



### Telefónica's challenge



Contact Center represents one of the channels with the greatest number of customer interactions and it is estimated to be the preferred channel for customer care in next years.

#### We have two main challenges in this channel:



Improve customer experience

- Accessibility and resolution capabilities by automating complex customer journeys.
- New generation of digital native customer with increasing digital expectation.



#### **Reduce cost**

- OpEx in Call Center is one of our largest expenses, even with a decreasing trend driven by operational improvements.
- Digital channels migration initiatives have gradually less impact in overall cost reduction and increase the cost per call.

The introduction of **cognitive capabilities in our Contact Centers** represents an **opportunity** to significantly change the way in which we serve customers, **enabling those both drivers**:



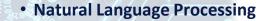
**Improving customer satisfaction** by means of more humanized, personalized and natural voice interactions.



Driving **savings in OpEx** by means of more efficient interactions with a high level of automation.

# \_goals

- Standardize and homogenize the different channels, avoiding human discretion
- Simplify of the model
- Get Efficient TMO
- Agility in the response to the customer



- Cognitive Engines
- Speech Analytics
- Complete and accessible knowledge bases
- Clear and voice compatible criteria between automatic responses (bots) and agent support

tools

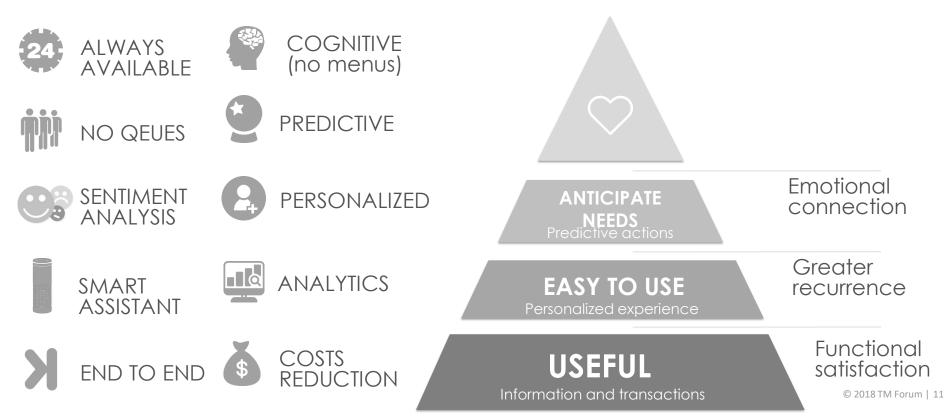


# **Cognitive Contact Center**

### Cognitive Call Center: vision

We envision a Cognitive Contact Center that truly engage native and non-native digital customers enabling a complete omnichannel digital customer care

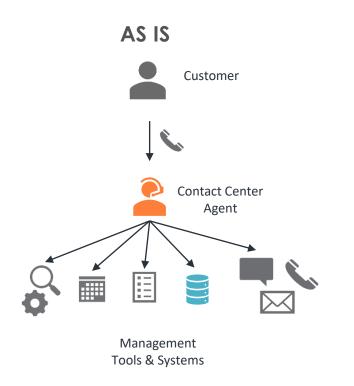
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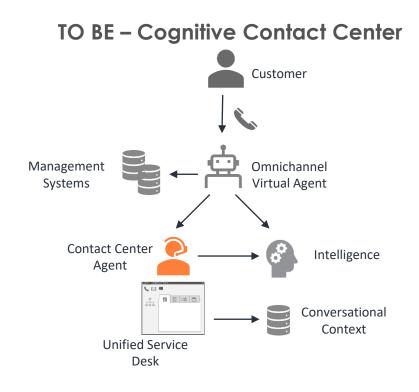


Cognitive Call Center: approach

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Our approach for the Cognitive Contact Center is based on the **continuous** and **progressive implementation** of **use cases** to be **moved** to an omnichannel Virtual Agent







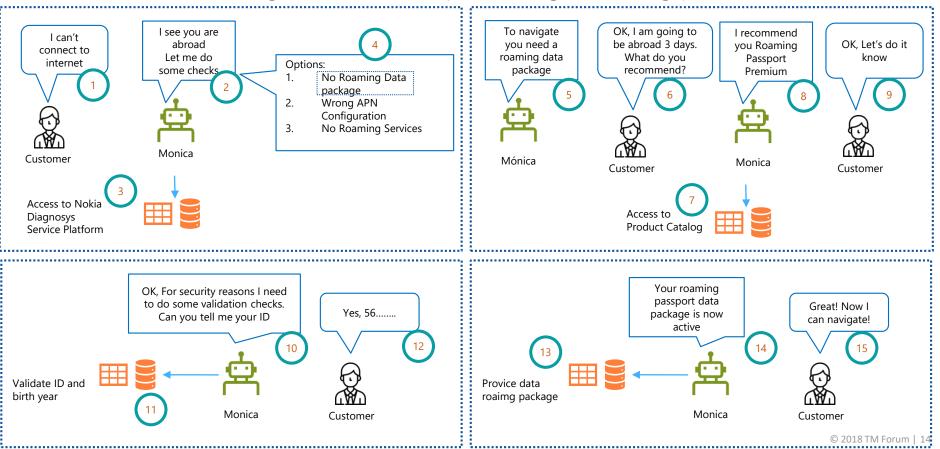




#### Cognitive Contact Center: Use cases examples



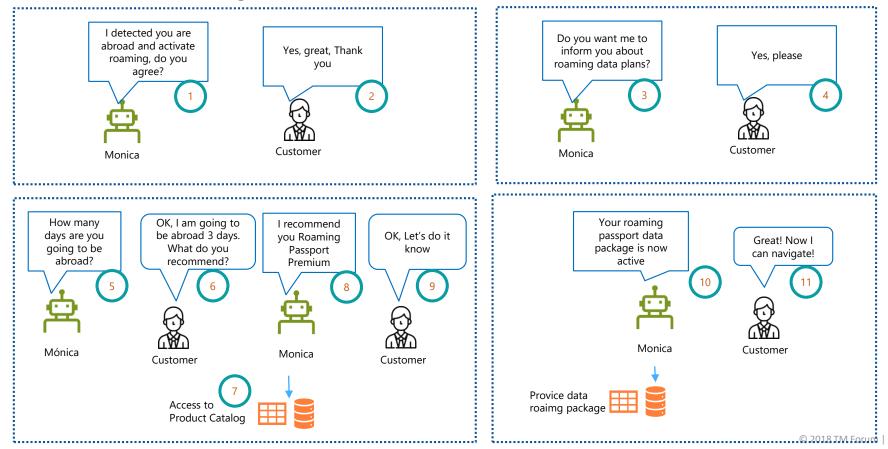
Problem with data streaming service – Inbound (No Roaming Data Package)



#### Cognitive Contact Center: Use cases examples

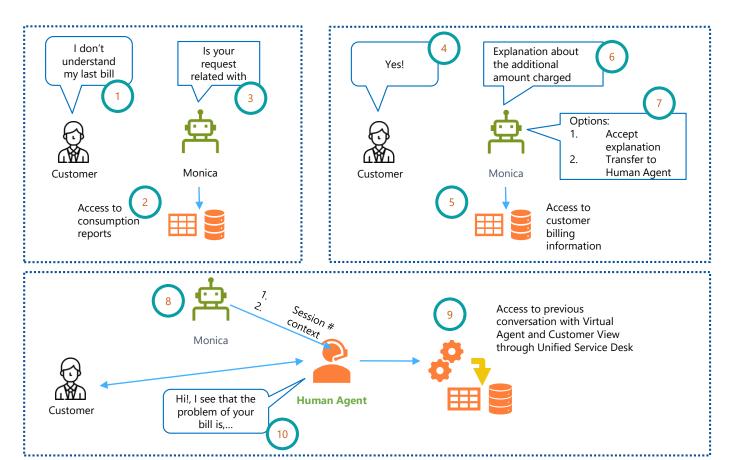


Problem with data streaming service – Outbound



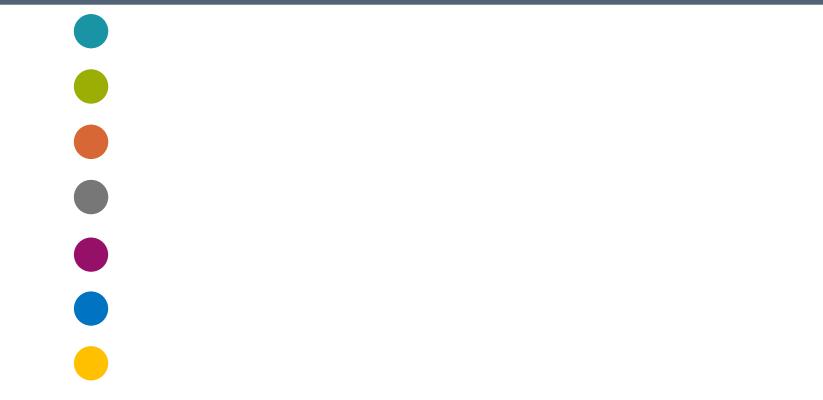


#### Billing information request or claim





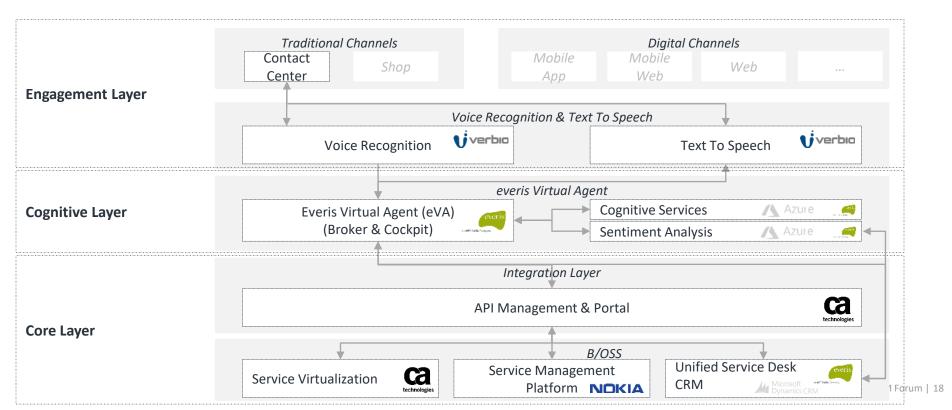
## \_Architecture



### Cognitive Contact Center: High Level Architecture

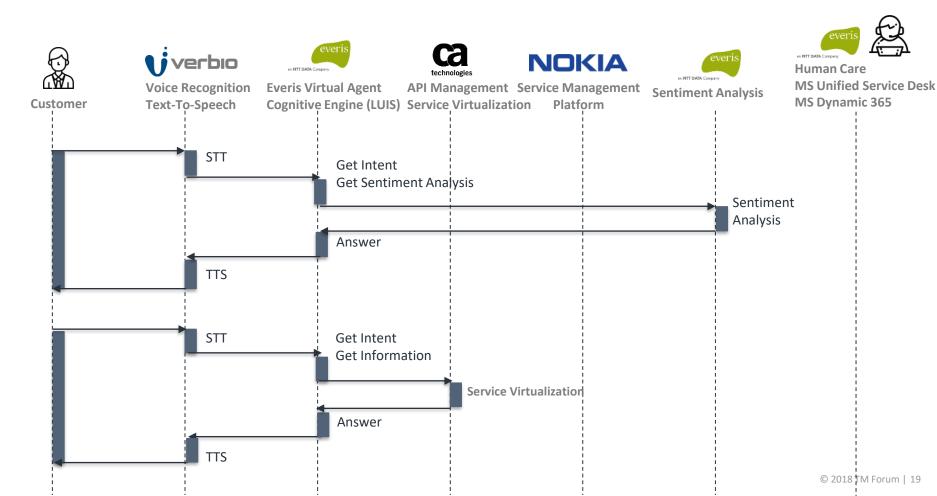


The **architecture components** of this initial Catalyst phase are **totally connected** and it could be possible to **deploy** them **in the short term**. In fact, it has been possible to enable them leveraging existing implementation across Telefonica Group operations



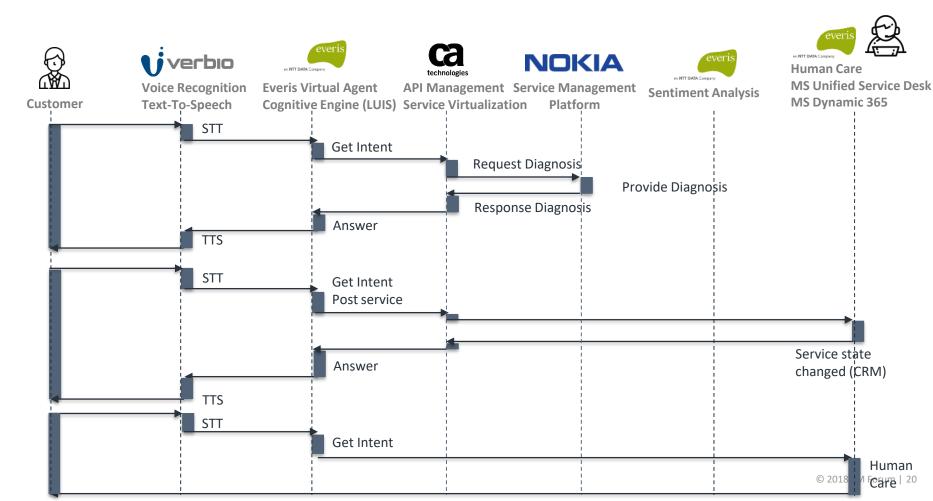
### Cognitive Call Center: Technical Flow

#### tm**forum**



### Cognitive Call Center: Technical Flow

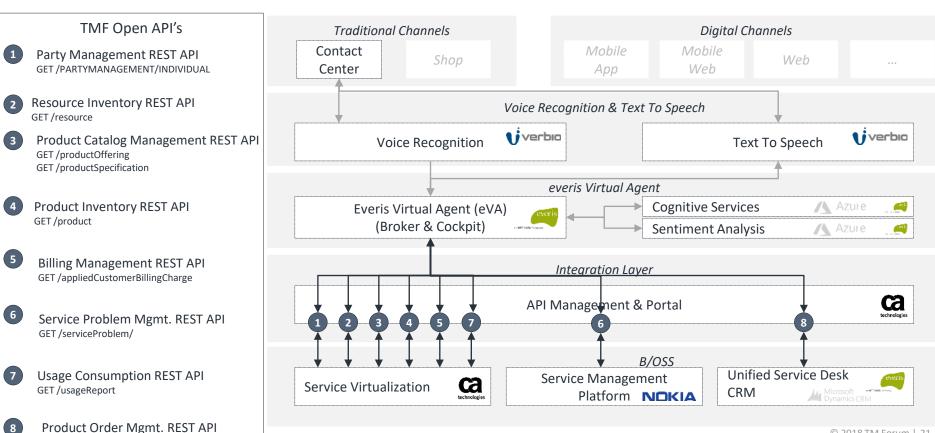
#### tm**forum**



### (open) a.pis

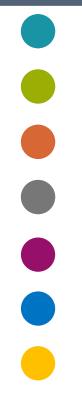
#### 8 TM Forum OPEN API supported

POST /productOrder



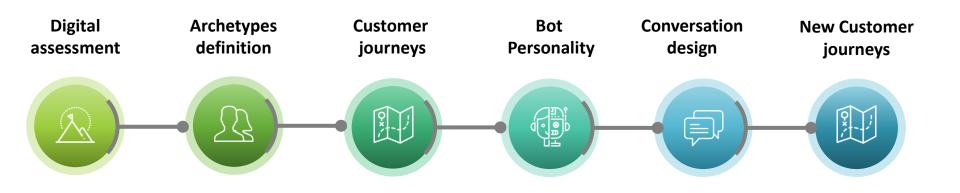


## \_Methodology



### Our Conceptualization Methodology

To achieve such **fast results**, it has been mandatory to have a **new way of doing things**, considering new design thinking techniques that enabled a more **innovative** and **agile** vision:



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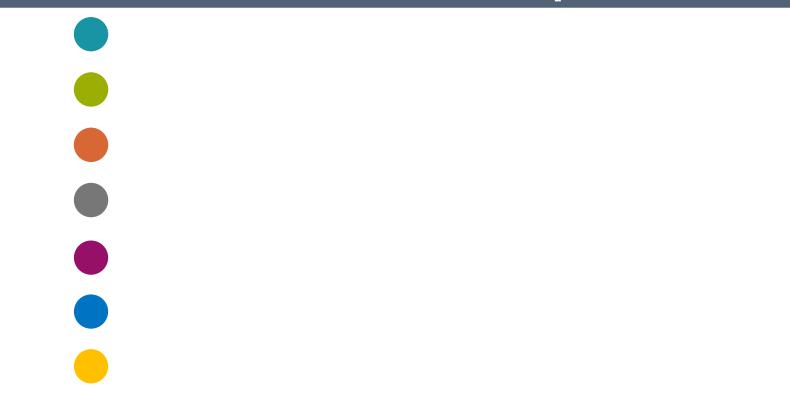
#### Design Thinking at Lisbon Action Week







# Next Steps









- More **complex use cases** that require the development of **new capacities** through the use of **RPAs**.
- Data Intelligence use to increase the level of outbound interactions and offer advised up-selling and cross-selling products.
- Integration of **Identity Management** mechanisms, such as voice biometric authentication
- Enable the concept of "User Lifecycle Management" that will allow users to access to customer services and manage them
- **Omnichannel Experience**, by **extending the channels** the customer may interact through ensuring a unique an integrated experience for the customer
- Augmented Reality, allowing the customer to interact with physical devices (e.g.: home router) through the support of a Virtual Agent
- **New revenues streams**: Possibility of finding alternative ways for CSPs to generate revenues by providing "Cognitive Contact Center" as a service

