

Bots or Humans? Or both?

CONFERÊNCIA INTERNACIONAL APCC
16 de maio de 2017, Centro de Congressos do Estoril



BOTS vs HUMANS
Cognitive Augmentation

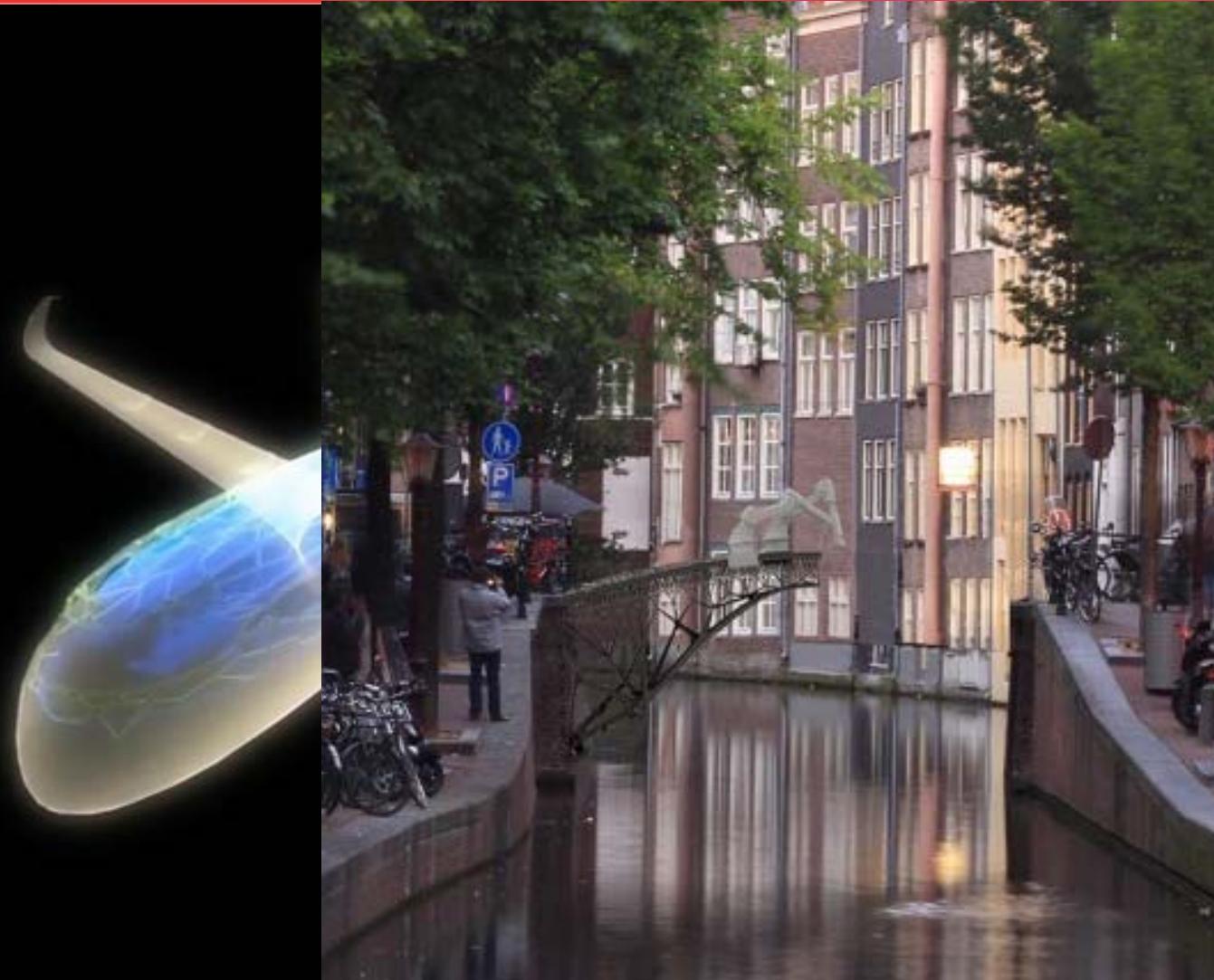
Carlos Vasconcelos



AUGMENTED AGE



Robotic Systems that help you create





Computational Systems that help you think



COGNITIVE AUGMENTATION

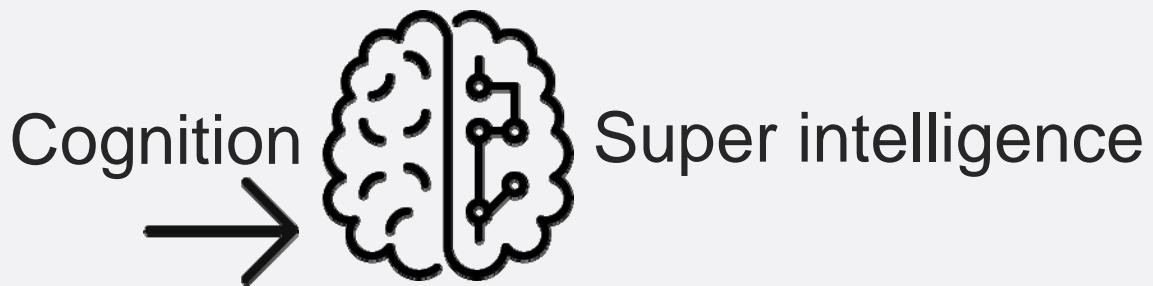


What is cognition?

Cognition is a mental process of acquiring knowledge and understanding.

It consists mainly of :

- Knowledge
- Attention
- Memory
- Computation
- Endurance
- Evaluation
- Reasoning



Who has better cognitive skills? **HUMAN or MACHINE?**





Artificial intelligence @ Collab



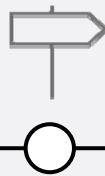
Artificial Intelligence (AI) **WHY?**



quick and immediate
response



reduced
costs



consistent
interactions



Omni-channel
AI



These systems have
zero churn



Cognitive Services

Vision

faces to feelings

Speech

hear and speak, filtering noise and identifying speakers and their emotions

Language

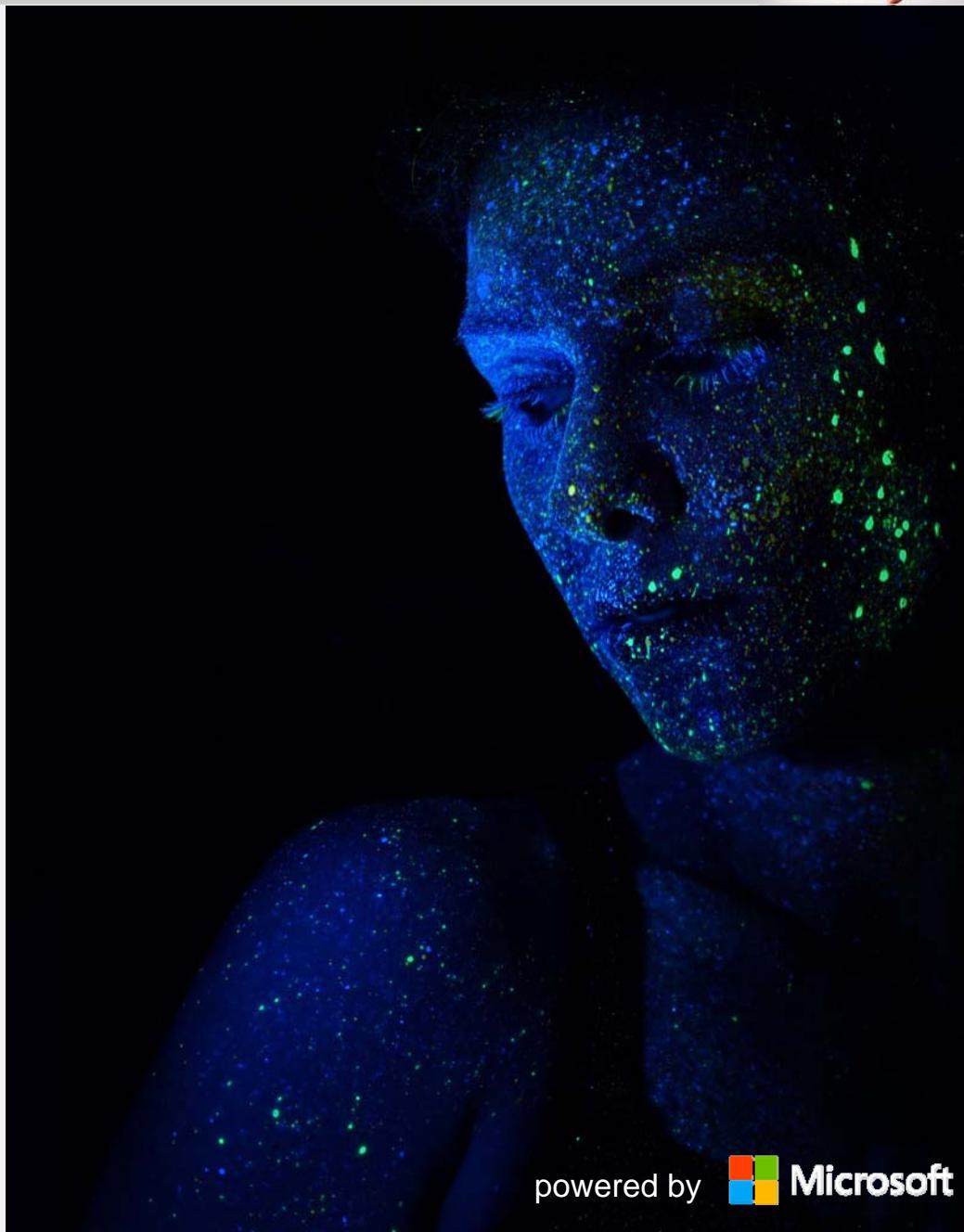
process text and learn to recognize what customers want

Knowledge

tap into knowledge gathered from the web, your FAQs and other systems

Search

access billions of web pages, images and videos to better train the system





Let's complicate things ...

Vision

State-of-the-art image processing algorithms help you moderate content automatically and build more personalized apps by returning smart insights about faces, images, and emotions.



Computer Vision API



Face API



Content Moderator



Emotion API PREVIEW



Video API PREVIEW

Speech

Processing spoken language in your applications



Custom Speech Service
PREVIEW



Speaker Recognition
API PREVIEW



Translator Speech API



Bing Speech API PREVIEW

Language

Allow your apps to process natural language, evaluate sentiment and topics, and learn how to recognize what users want.



Language
Understanding
Intelligent Service
PREVIEW



Web Language Model
API PREVIEW



Translator Text API



Bing Spell Check API



Text Analytics API PREVIEW



Linguistic Analysis API
PREVIEW

Knowledge

Map complex information and data in order to solve tasks such as intelligent recommendations and semantic search.



Recommendations API
PREVIEW



Knowledge Exploration
Service PREVIEW



Entity Linking
Intelligence Service API
PREVIEW



Academic Knowledge
API



QnA Maker API PREVIEW



Use case for Vision API / Sentiment Analysis

Vision

State-of-the-art image processing algorithms help you moderate content automatically and build more personalized apps by returning smart insights about faces, images, and emotions.



Computer Vision API



Face API



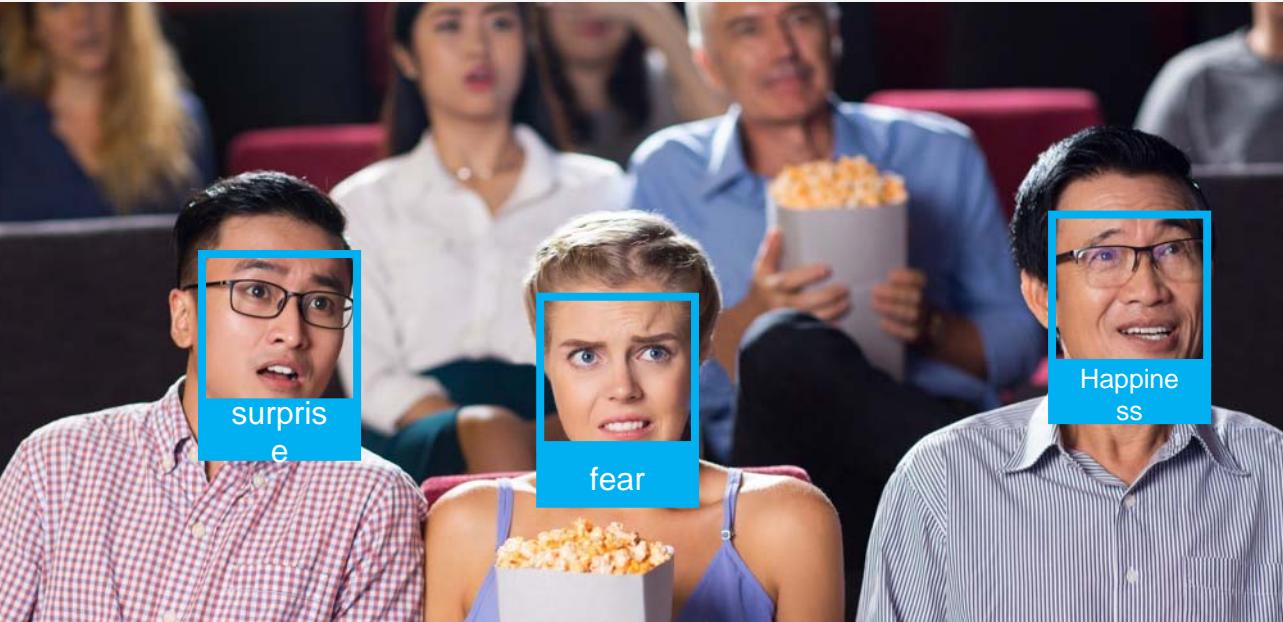
Content Moderator



Emotion API PREVIEW



Video API PREVIEW



Audience emotion evaluation

Other examples:



- Video Bots
- Face detection
- Video stabilization
- Motion detection



Use case for Speech API

Speech

Processing spoken language in your applications



Custom Speech Service
PREVIEW



Speaker Recognition API
PREVIEW



Translator Speech API



Bing Speech API
PREVIEW

Speech Recognition (ASR)



Speech Intent Recognition



Text To Speech Conversion (TTS)



Convert spoken audio to text

Convert audio to intent

Convert text to spoken audio



Nubitalk powered by Collab.

BOTS + HUMANOS

1. **Bom dia!**
Análise de intenção, informação de voo e negociação.
Análise de sentimento: 80% (alto).

2. **Número de voo?**
Bot pergunta e verifica se é necessário para confirmar voo e malas.

3. **Número de voo identificado.**
Bot regista a entidade (número do voo) e uma intenção adicional (nova localização pretendida).

4. **Mais no escritório.**
Bot entrega o interrogo ao agente porque detecta uma intenção para a qual não tem resposta standard (pedido extraordinário).

5. **Transferência para o agente.**
Análise de sentimento: 80% (alto).

ESCOLHA O PACOTE QUE MAIS SE ADEQUA AO SEU NEGÓCIO

PROFESSIONAL
solução omnicanal completa
€65
por agente concorrente
por mês faturado anualmente

STARTER
solução omnicanal de Contact Center
€40
por agente concorrente
por mês faturado anualmente

ADVANCED
solução topo de gama orientada para a excelência operacional
Condições sob consulta

Nubitalk

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Artificial Intelligence (AI) Overview

Complete AI and machine-learning suite



Predictive
Quality Monitoring



Predictive
Routing



Self-learning
Bots

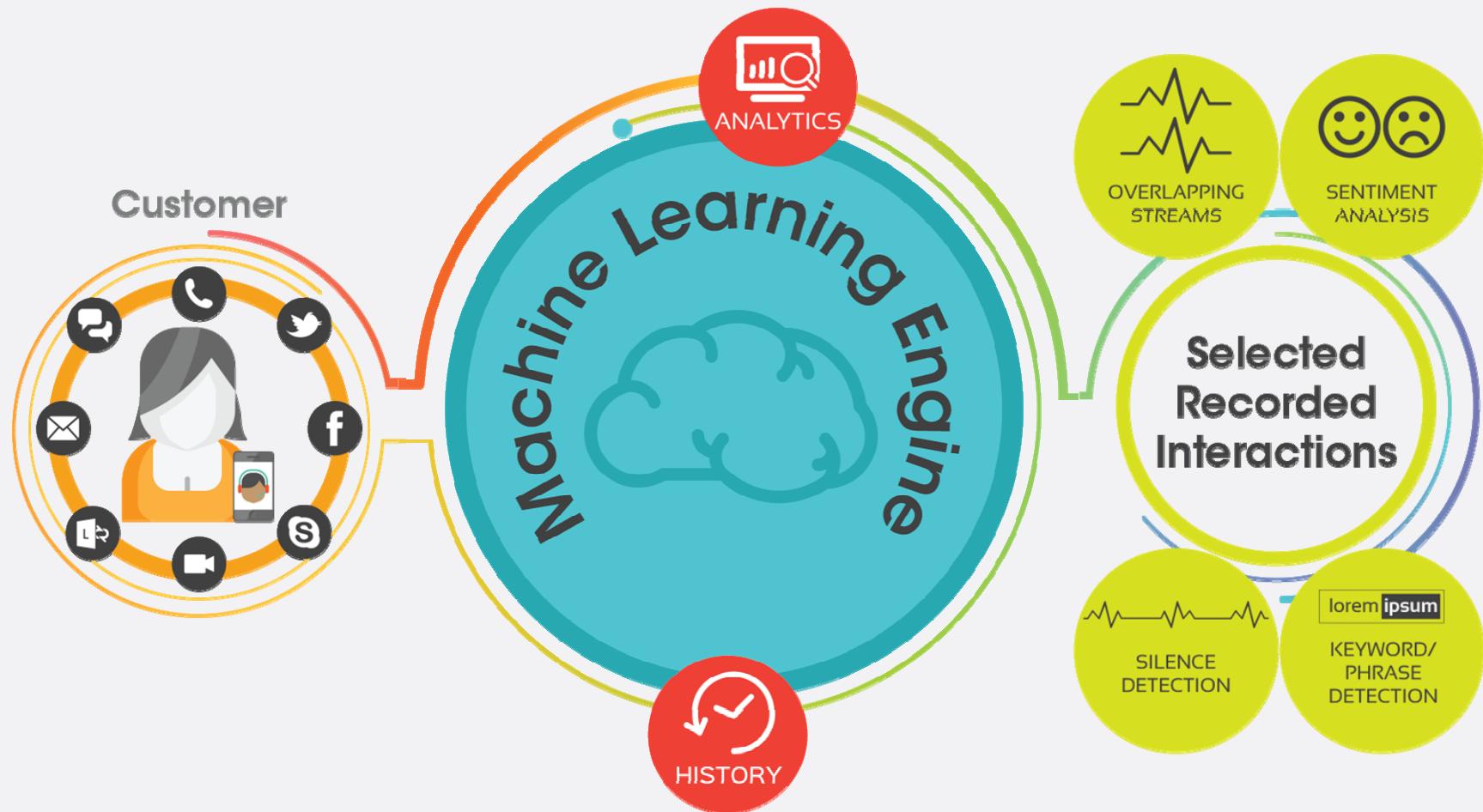
???

***announcing
TODAY***



Artificial Intelligence (AI)

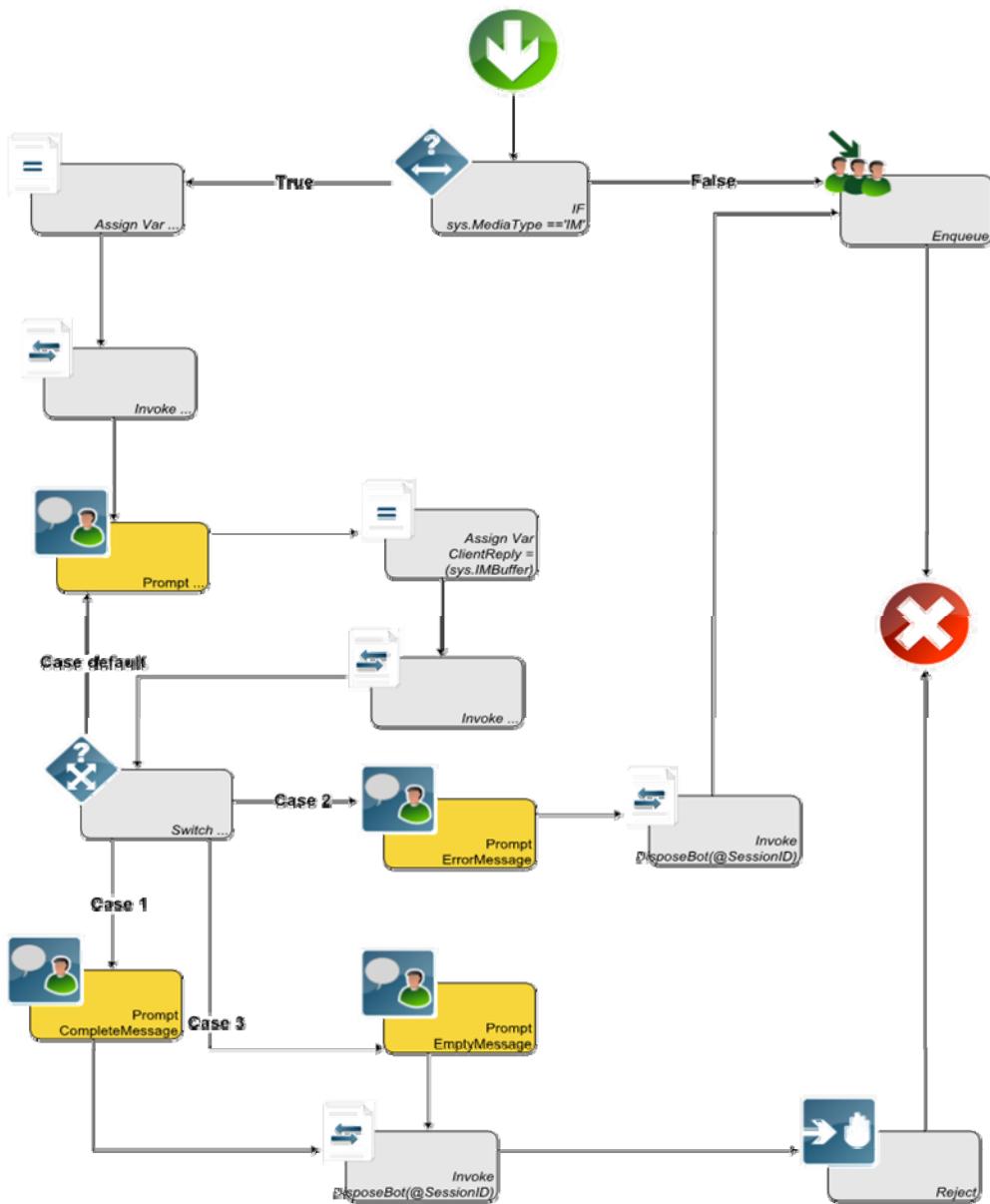
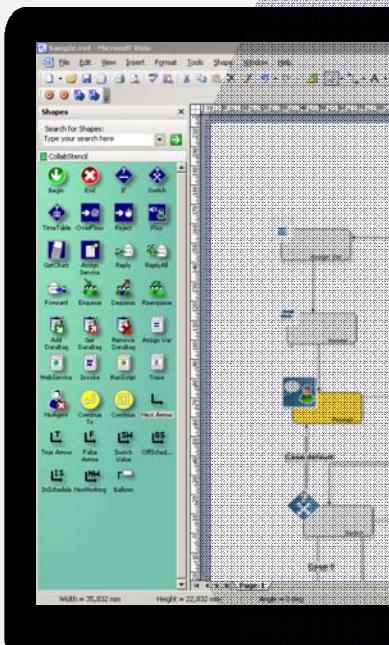
Predictive quality monitoring





Artificial Intelligence (AI)

Predictive Routing





Artificial Intelligence (AI)

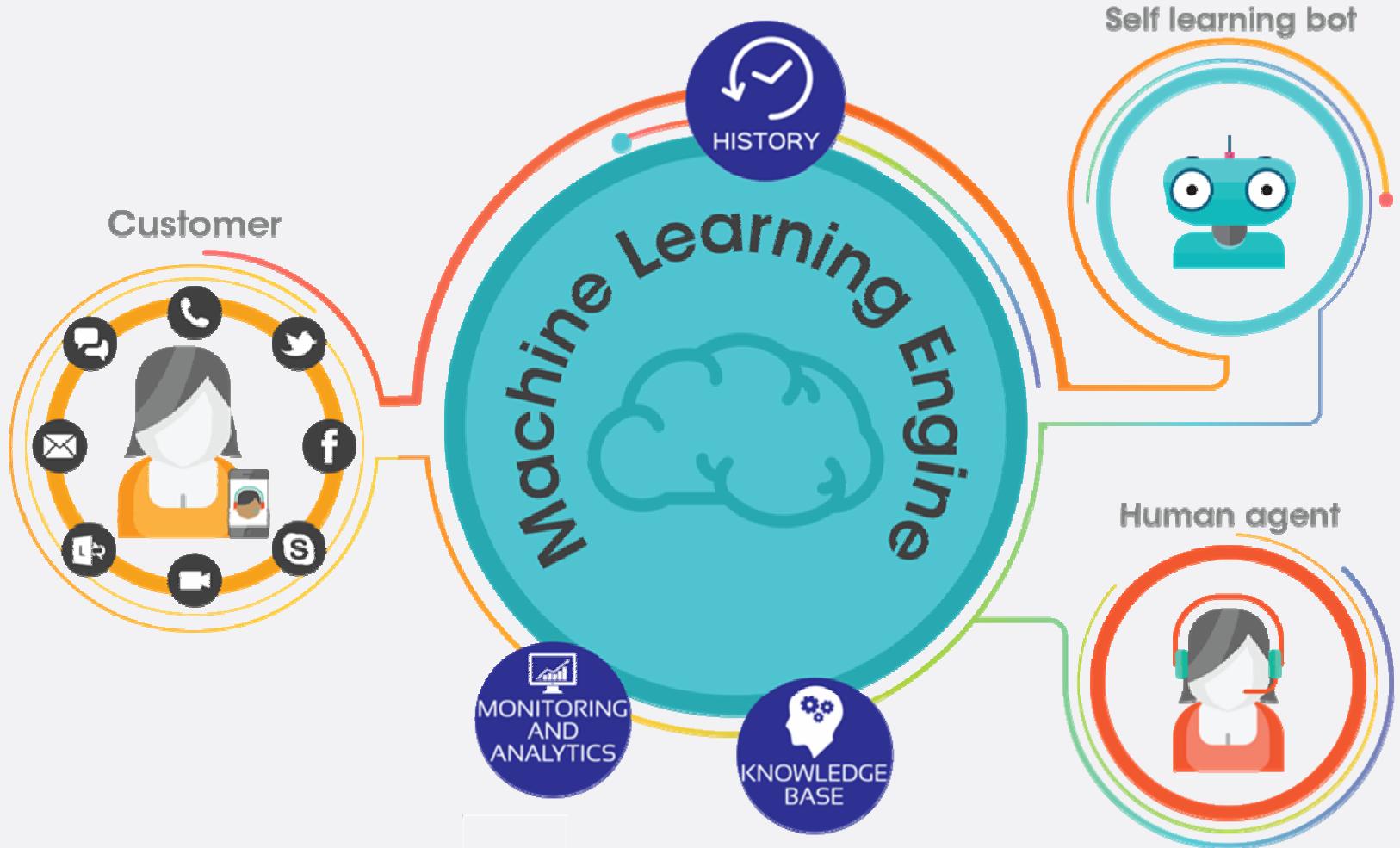
Predictive Routing





Artificial Intelligence (AI)

Self learning bots (chat and vocal)



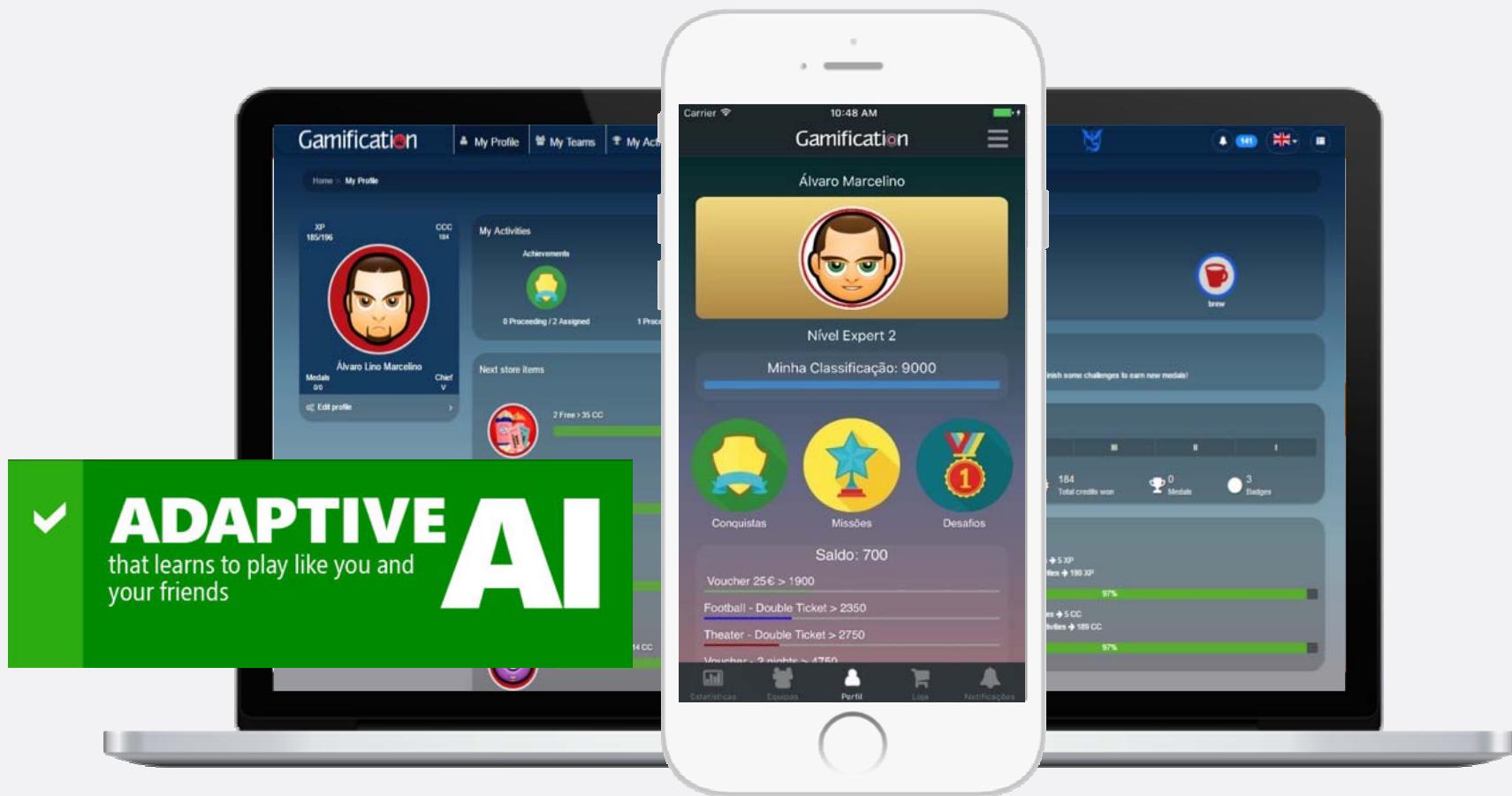


Announcing today...



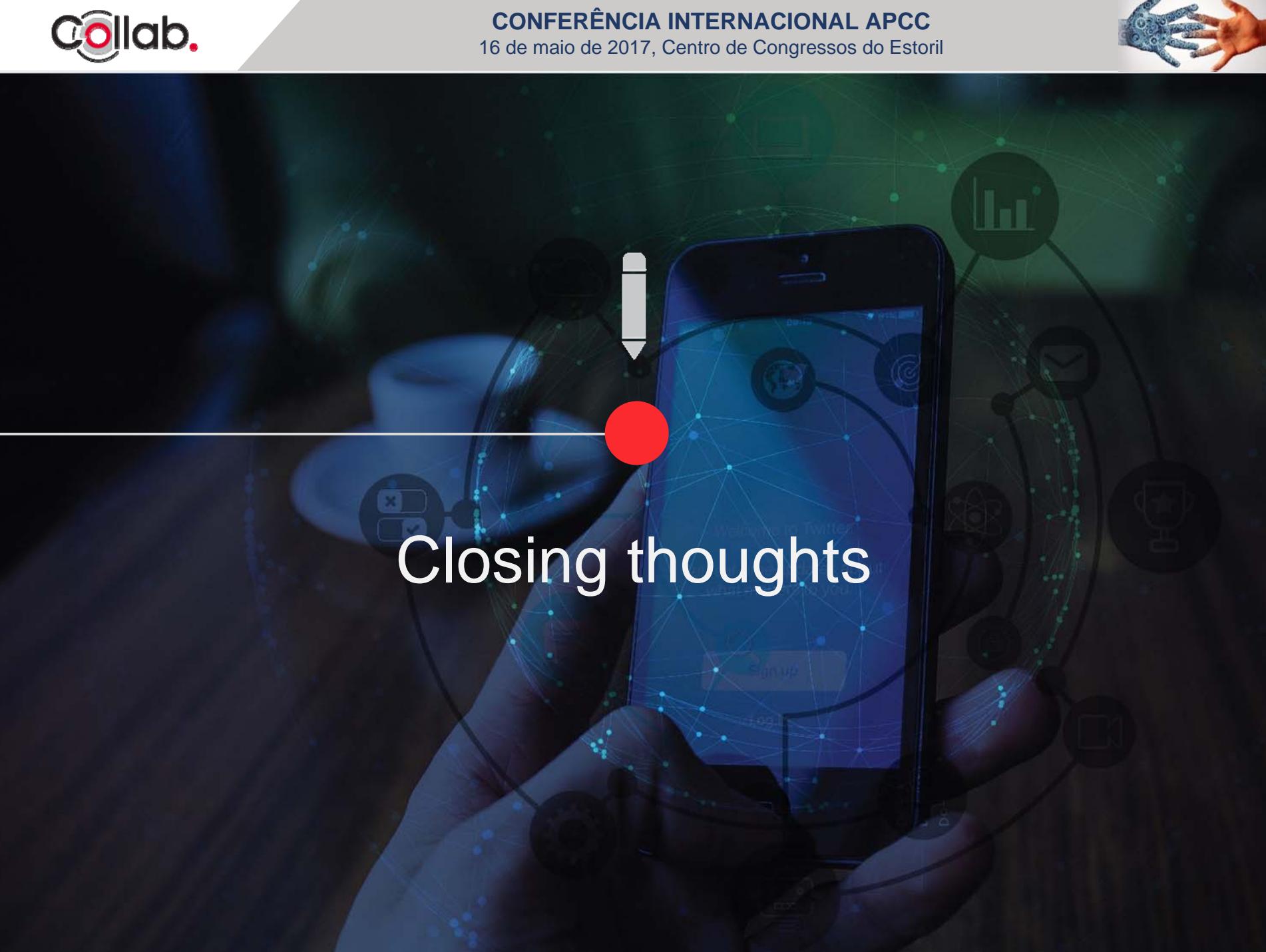
Gamification

Play against ADAPTIVE AI



The image shows three devices displaying the Gamification app interface. On the left, a laptop screen shows the 'My Profile' section with a user's profile picture, XP (180/196), CCC (184), and various activity and achievement metrics. A green banner at the bottom left reads: '✓ ADAPTIVE AI that learns to play like you and your friends'. In the center, a smartphone screen displays the main dashboard with a user's name (Álvaro Marcelino), level (Nível Expert 2), classification (Minha Classificação: 9000), and three achievement icons (Conquistas, Missões, Desafios). On the right, a tablet screen shows a store interface with items like a coffee cup icon, a progress bar for challenges, and a summary of credits won (184), medals (0), and badges (3). The top right corner of the slide features a small circular logo with a blue bird.

ADAPTIVE AI
that learns to play like you and
your friends



Closing thoughts



Not gonna happen in our lifespan?
Think again ...



thank you.

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