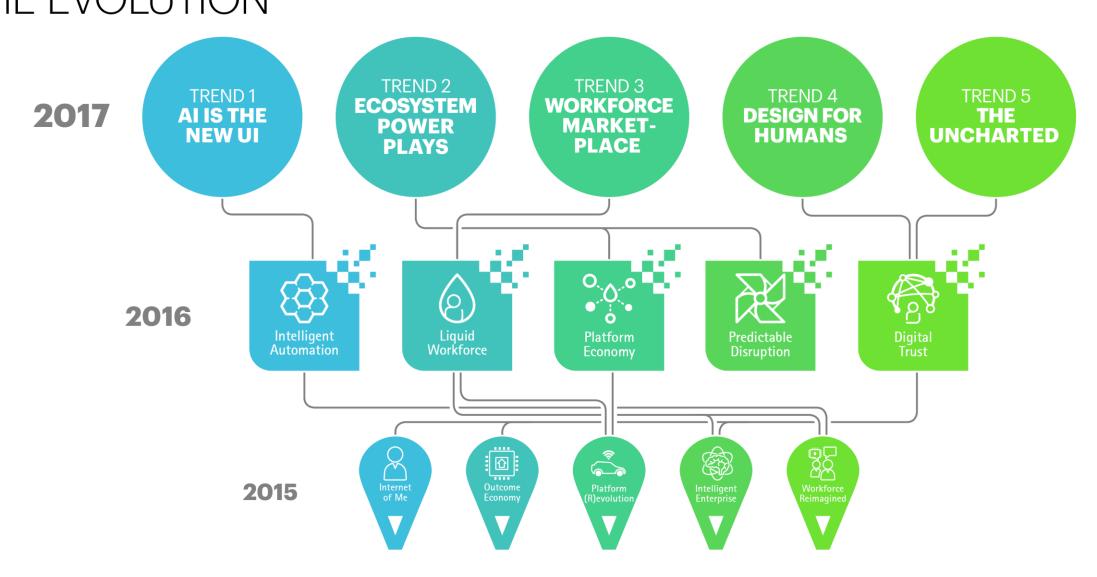


FTA Annual Meeting - SeattleJune 2017

Alejandro Lira Volpi

#TECHVISION2017

ACCENTURE TECHNOLOGY VISION THE EVOLUTION



ARTIFICIAL INTELLIGENCE – WHAT IS IT?

IT SYSTEMS THAT CAN SENSE, COMPREHEND, ACT – AND LEARN

ENABLES MACHINES TO INTERACT NATURALLY WITH PEOPLE, DATA AND THE ENVIRONMENT. THESE SYSTEMS CREATE MORE INTUITIVE INTERACTIONS AND EXTEND THE CAPABILITIES OF WHAT EITHER HUMAN OR MACHINE CAN DO ON THEIR OWN.

perceive the world (e.g., computer vision, audio processing or sensor processing) analyze and understand the information collected (e.g., natural language processing or knowledge representation)

make informed decisions (e.g., inference engines, predictions or expert systems) learn and self-tune (e.g., machine learning, deep learning)

ARTIFICIAL INTELLIGENCE BIG IMPLICATIONS



76% OF BANKERS BELIEVE

AI WILL BE THE PRIMAMRY METHODS TO INTERACT WITH CUSTOMERS IN 3 YEARS



95% OF CONTACTS

IN A PROOF OF CONCEPT AT A EUROPEAN MINISTRY OF FINANCE WERE AUTOMATED OVER 9 MONTHS



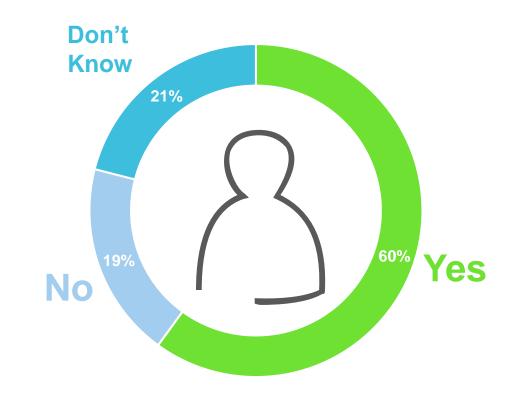
40% OF COST

IS EXPECTED TO BE
ELIMINATED THROUGH
OPERATIONAL
EFFICIENCY BY
ARTIFICIAL
INTELLIGENCE

ARTIFICIAL INTELLIGENCE - PERSONALIZATION UNITED STATES

Would you agree to allow the tax authority to use all the information that it already has about you in order to provide you with a more personalized digital tax experience?

60% OF US TAXPAYERS WANT A PERSONALIZED EXPERIENCE



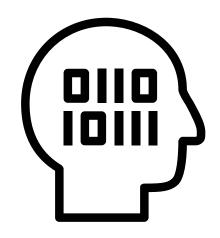
Source: Accenture Taxpayer Survey 2017

ARTIFICIAL INTELLIGENCE UNDERSTANDING

Source: 2017 Accenture Taxpayer Survey

58%

OF RESPONDENTS IN THE US HAVE ARTIFICIAL INTELLIGENCE KNOWLEDGE



1 OUT OF 4 RESPONDENTS IN

RESPONDENTS IN THE US USE VIRTUAL AGENTS

Online Customer Support via Virtual Digital Assistants

A computer-generated, human-like character that answer your questions and engages you in a conversation while you are using digital services and websites

BUT IT ISN'T THAT SIMPLE...

ARTIFICIAL INTELLIGENCE CAPABILITIES AND SOLUTIONS

SOLUTIONS

Intelligent Enterprise Strategy

Intelligent Process
Automation

Enhanced Judgement

Enhanced Interactions

New Products/ Unlock Value in Dark Data

CAPABILITIES

TECHNOLOGIES



Virtual Agents



Software Robotics



Caseload Analytics



Text Analytics



Video Analytics



Unique Identity

Language

Semantic analysis
Content classification
Natural language search
Machine translation
Emotion detection
Language detection

Vision

Object recognition
Face recognition
Object tracking
Optical Character Recognition
Handwriting recognition
Emotion detection
Gender/age detection
Scene recognition

Sound

Speech To Text
Speech recognition
Text to speech
Emotion detection
Language detection
Sound recognition
Gender/age detection
Speaker detection

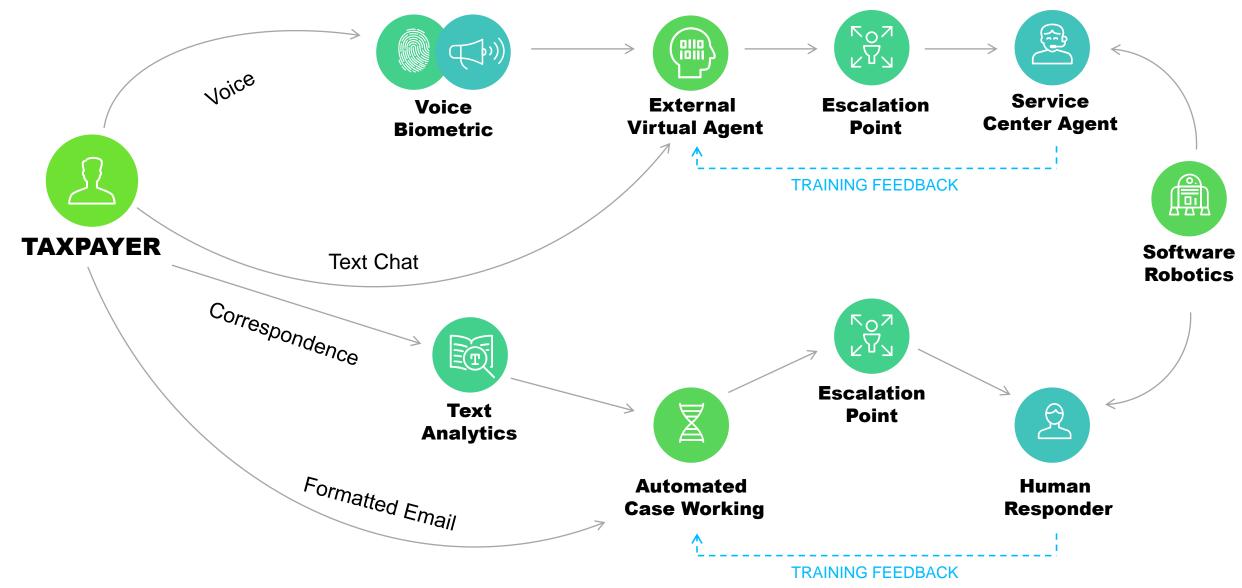
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Machine Learning, Deep Learning

Open Source, Platforms (Google, Microsoft, Watson, Facebook, Amazon...), Specialist Products

Data/Knowledge/Experience

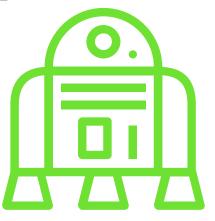
AI IS THE NEW UI



EXAMPLE: DATA OPTIMIZATION USING SOFTWARE ROBOTICS IN A REVENUE AGENCY

DELIVERING SOLUTIONS OVER SIX MONTHS WHICH WILL ACHIEVE THE WORK LOAD OF

OVER 350 TAX AGENTS IN 1 YEAR.



DEVELOP THREE ROBOTICS
SOLUTIONS TO SUPPORT
DIGITAL TRANSFORMATION

ADDITIONAL ROBOTIC SOLUTIONS TO RESOLVE CUSTOMER ACCOUNT ISSUES

EXAMPLE: VOICEPRINT TECHNOLOGY IN AN INTERNATIONAL REVENUE AGENCY

THE ATO IS SUCCESSFULLY USING VOICE PRINT TECHNOLOGY IN BOTH THE CONTACT CENTER AND THROUGH ITS SMARTPHONE APP TO AUTHENTICATE USERS



EXAMPLE: LAND REGISTRY ANALYSIS USING SATELLITE IMAGERY



BUILDING DETECTION

- IN URBAN, RURAL AND MIXED ENVIRONMENTS
- INDIVIDUAL HOUSING
- BUILDINGS

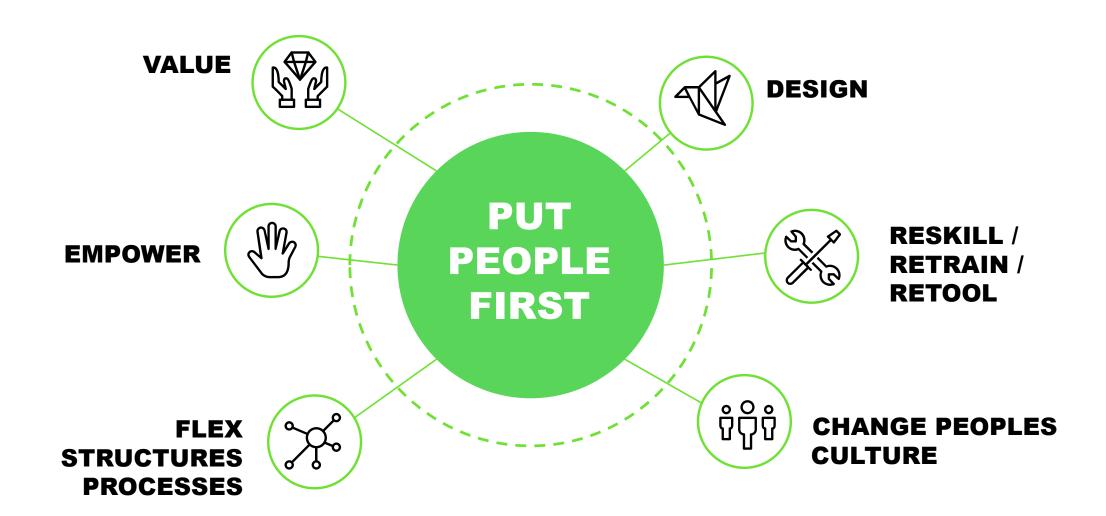




SWIMMING POOL DETECTION

MATCHING AGAINST LAND REGISTRY

TRANSFORMED HUMAN / MACHINE RELATIONS



REVENUE VISION ACCENTURE TECHNOLOGY TRENDS

