

Konferenca GoDigital 2019

# Podatki in umetna inteligenca

**Motor za rast konkurenčnosti  
gospodarstva**

19.11.2019, Brdo pri Kranju

Gospodarska  
zbornica  
Slovenije



Združenje za  
informatiko in  
telekomunikacije

IKT  
horizontalna  
mreža



Go

**DIGITAL**

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# Impact and results of AI in different industries

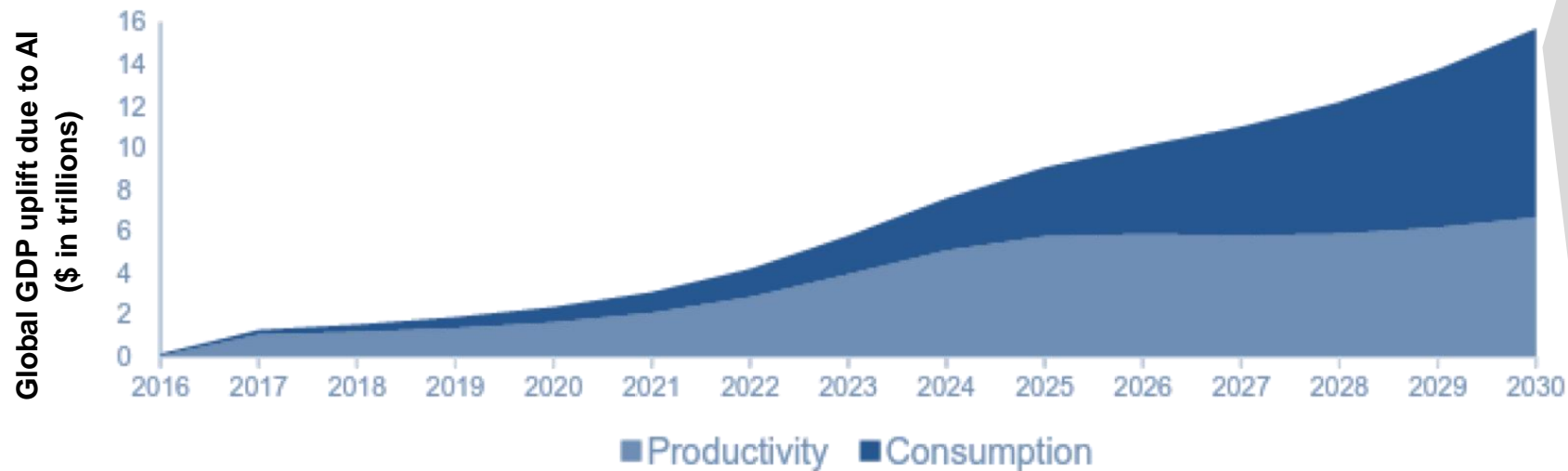
**Vlado Šarenac**

Pricewaterhouse Coopers



AI is predicted to become a major factor in global GDP growth by 2030

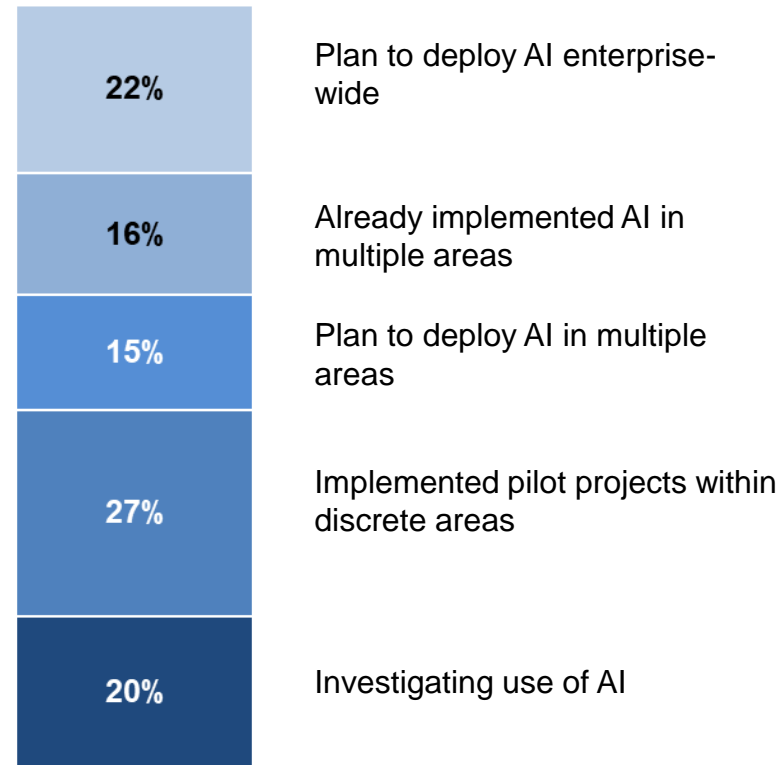
Global GDP Impact of AI through 2030



**2030 IMPACT:**  
**\$15.7T**  
Consumption Contribution:  
**60%**  
Productivity Contribution:  
**40%**

# Executives had ambitious plans for AI in 2019: 20% said their companies will roll it out across the business in this year

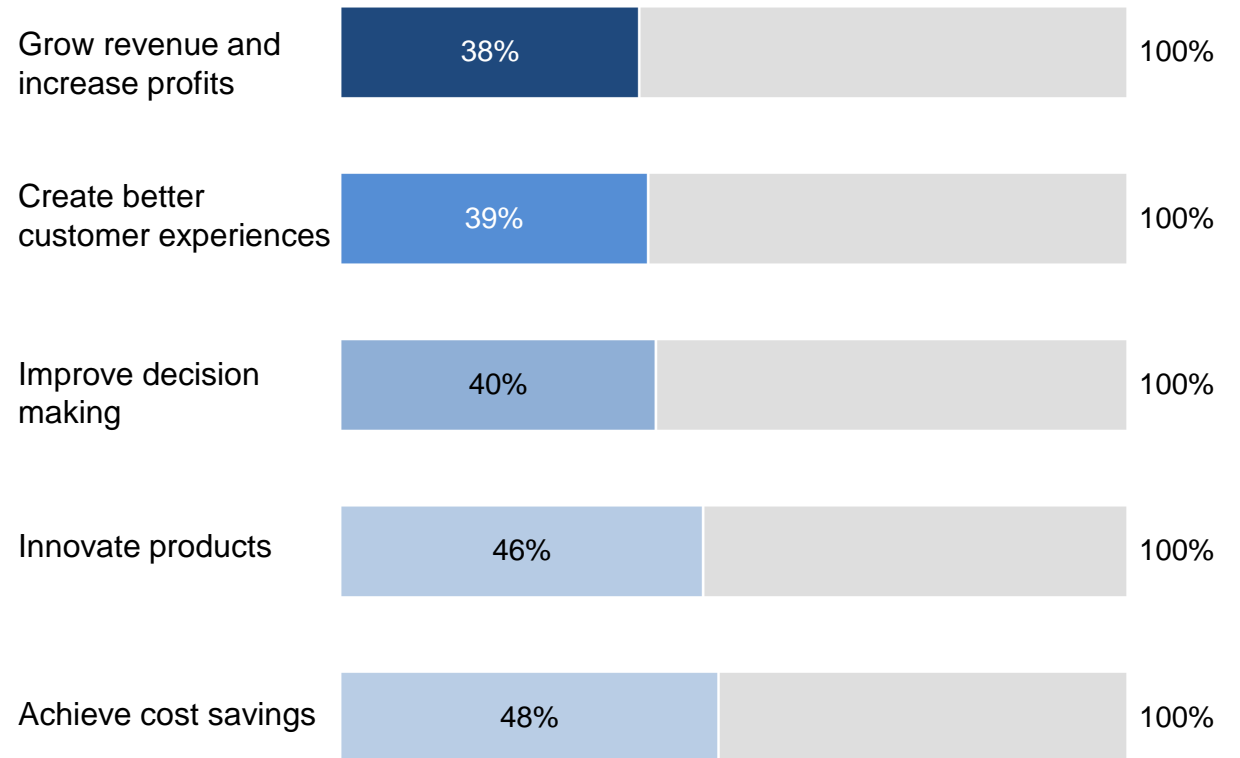
## ***AI at scale? How far along companies will be in 2019***



Source: PwC 2019 AI Predictions  
Base: 633  
Q: How far along is your organization with AI, select 1

AI can help businesses create and market high-quality, personalized, data-driven products and services.

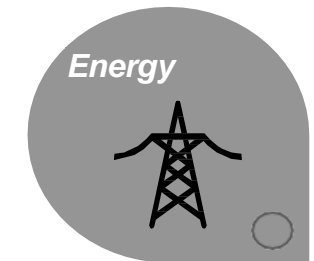
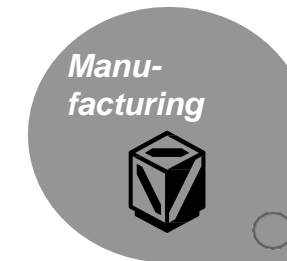
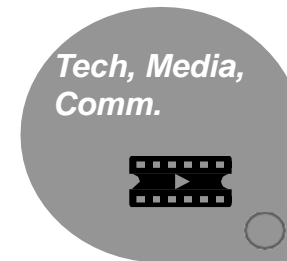
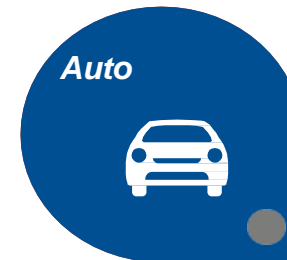
**Monetize AI?**  
**What is the perceived value of AI investments.**



Source: PwC 2019 AI Predictions  
Base: 1,001  
Q: What value do you expect from your AI investments?

# Healthcare, Auto, and Financial Services will be especially susceptible to AI disruption

Healthcare, Auto, and FS exhibit large potential for *high touch, high frequency, and high value* products & services enabled by AI



# Japanese Mutual insurance company is automating business processes to reduce labour

## Robotic Process Automation (RPA) Capabilities



### Document Image Capture

OCR functionality with the ability to identify specific fields and words



### Data entry

Automated data entry and transfer across disparate systems



### Rules-Based Triggers

Automatically initiate repeatable tasks



### Data scrapping

Scrape from live web pages and documents based on key words

*RPA vendor solutions are dominating the market for automating processes but have **limitations** on the extent and scope of impact they can have*

### Main benefits realised through the project

**+30%**

increase in labour productivity

**\$2M**

annual savings  
\*at \$150K maintenance

**3x**

benefit over offshoring

**110-140M**

reduction in workers by 2025

A Global Pharmaceutical company used Natural Language Processing to extract adverse drug interaction from multiple unstructured data sources

Sources



Clinician notes



Social media



Medical literature

Process

1

Tokenization Grammar Parsing Text Normalization Text Cleaning Word Disambiguation Vectorization

2

Gathering key information output, e.g., patient *sneezes* (event)

3

Deep Learning of Latent Relationships, e.g., *sneezing* and *antihistamine*

Main benefits realised through the project

+20%

Annual growth of adverse events

96%

Diagnostic accuracy

35% - 45%

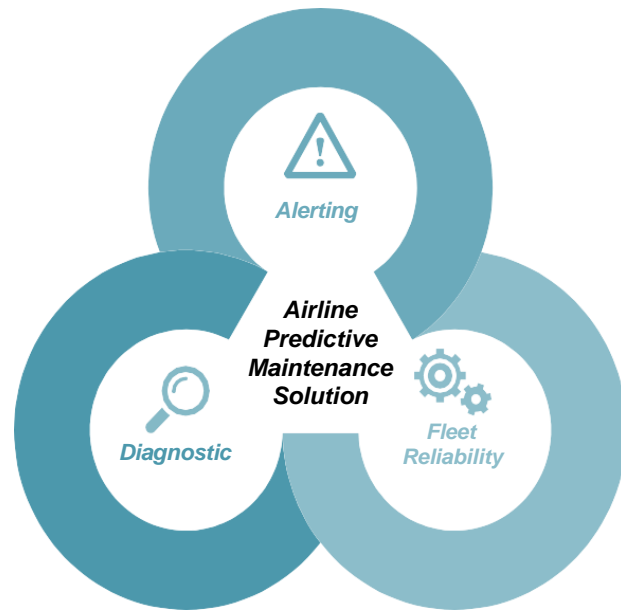
Savings in processing costs

\$14-18 M

Annual savings on current base



## Global airline used predictive aircraft maintenance to reduce maintenance related costs



Provides maintenance controllers **indication of potential failures at the aircraft component level** that necessarily result in delays and cancellations (D&Cs) 2-5 days out enabling maintenance intervention



Enables reliability engineers to **monitor fleet health** and identify trends, chronic aircraft and parts



Provides airline clients a deep **analysis on aircraft fault messages** and **text analytics** on maintenance logs to find significant signals that cause delay and cancellation events

### Main benefits realised through the project

**15%**

reduction in delays due to maintenance

**+0.9%**

on time performance

**-\$25M**

Cost reduction

# Global auto manufacturer gamified its strategy to evaluate go-to-market scenarios

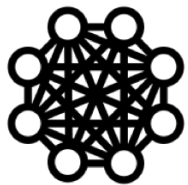
Digital Twins of consumers...



Socio-demographics

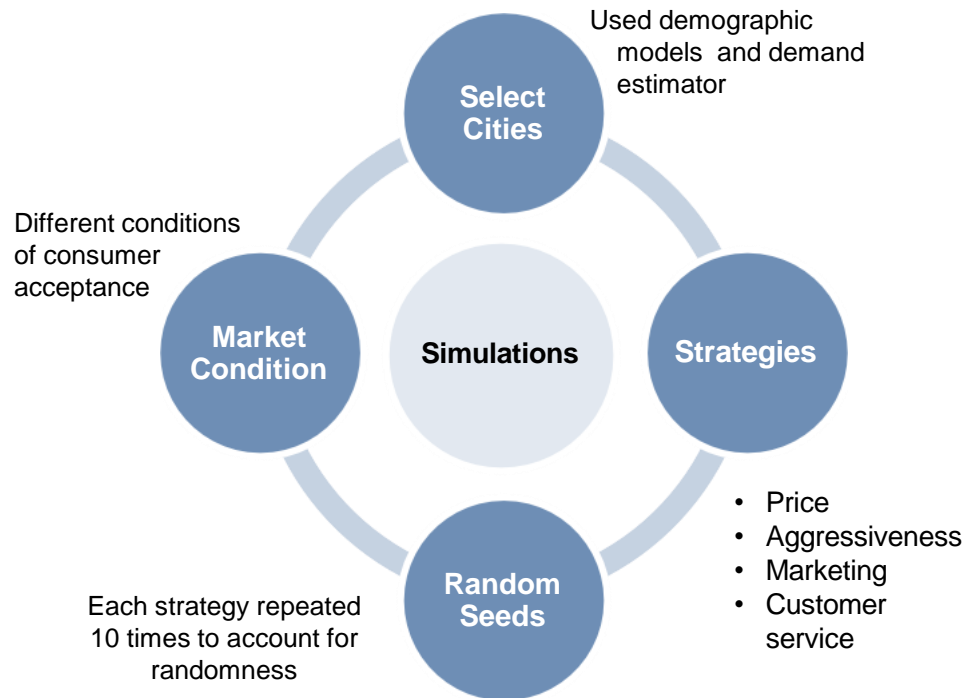


Transport choice (commute, errand, weekend)



City topology

...were modelled under a set of **scenarios**



*Main benefits realised through the project*

**200,000**  
go-to-market scenarios evaluated

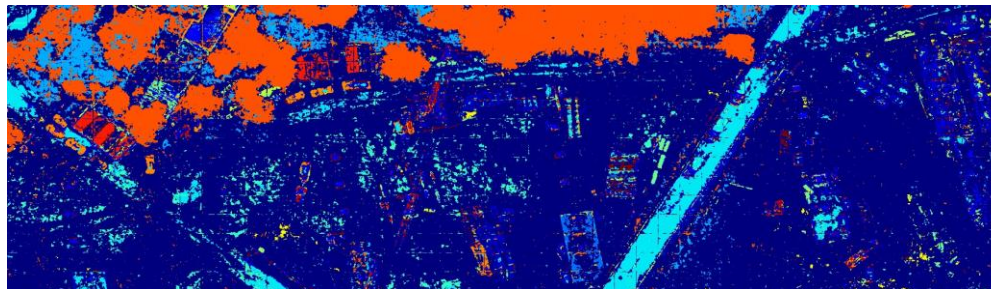
**\$1+ bn**  
Acquisition of AV technology start-up

**170 M**  
Miles delivered by 10,000 vehicles

# Construction company used drones and deep learning to monitor construction site progress



*From a **drone aerial picture** company was able to produce **segmented output** of different objects in that image*



Key:

Background	Trees
Cars	Concrete
Asphalt	Reinforcement

*Main benefits realised through the project*

**60%**  
reduction in  
operational cost

**700**  
hours of labor savings on  
one project

**\$3M**  
annual savings on a  
\$5M project

# To become an AI leader and realize clear benefits, make this your priority list

## 1. Build your AI foundation



Set your AI strategy and build the capabilities so you start strong and are well-positioned to scale.

## 2. Create an AI-ready workforce



Reimagine your HR strategy for the AI age, from upskilling and recruiting to creating the right culture for collaboration.

## 3. Make your AI trustworthy



Develop responsible AI with security, explainability, model validation, auditing, and regulatory alignment.

## 4. Turn data into value with AI



Enhance analytics with AI to improve processes, predict problems, and create new revenue.

## 5. Use AI to drive business strategy



Develop business modeling scenarios, inform product development, and more.

## 6. Create a smart AI ecosystem



Embed AI into the IoT and other tech to boost productivity and cost savings.

**Thank you for your  
attention!**

