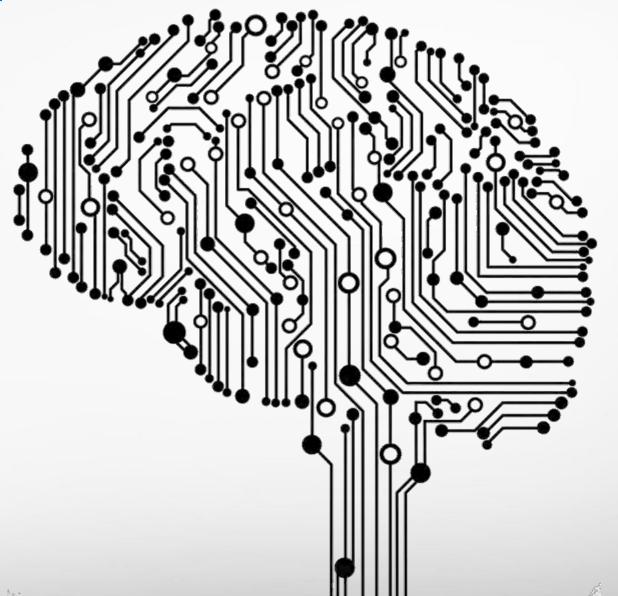


## Artificial Intelligence

# Making Al real for every organization

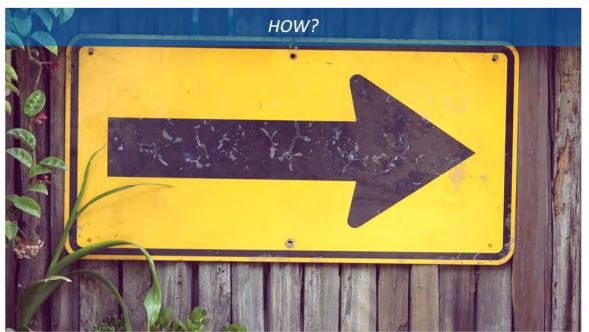
Claudio Mirti Advanced Analytics & Al Specialist EMEA







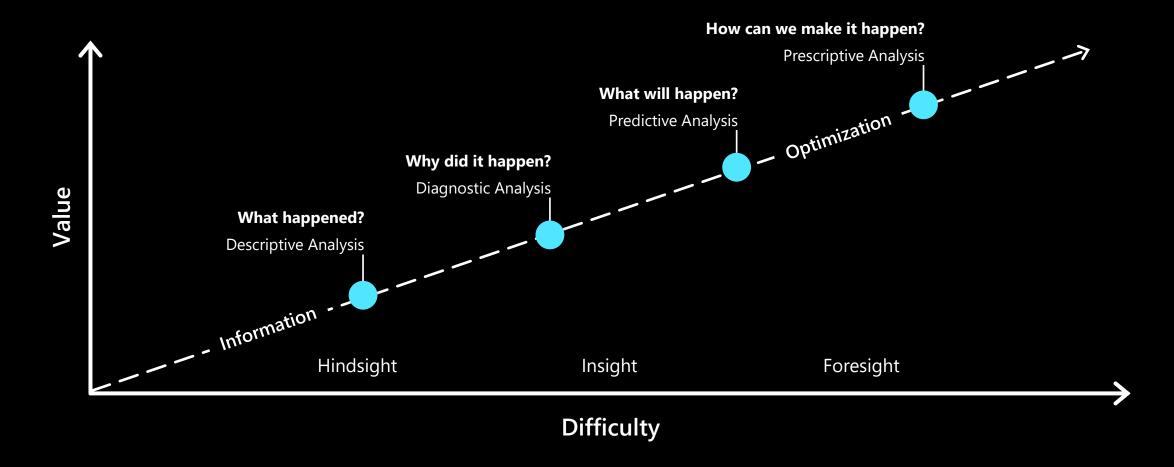






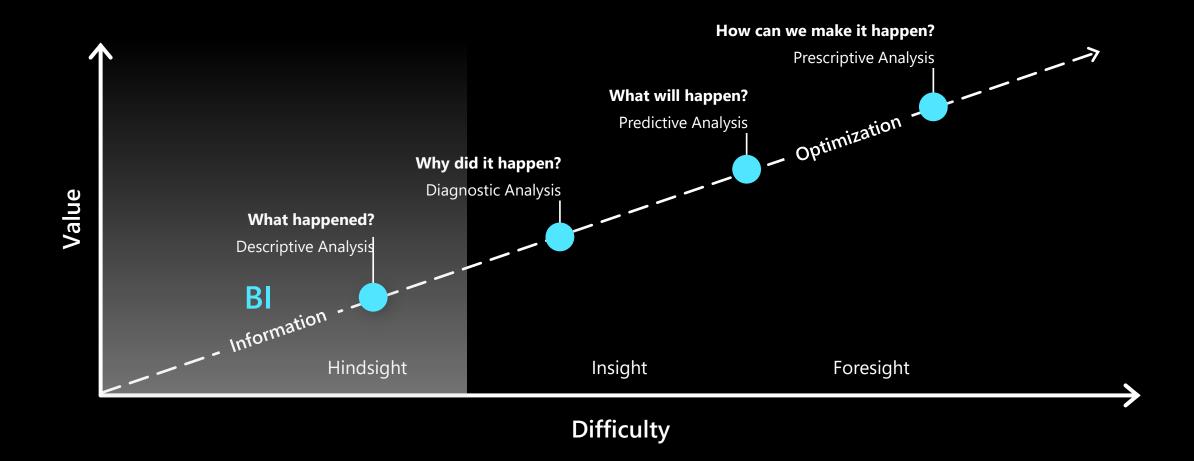


### Where do you find yourself on the curve?

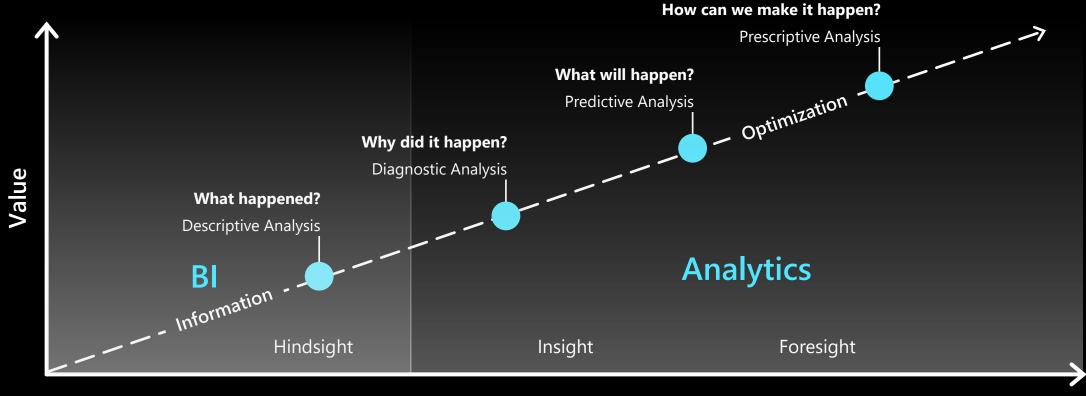




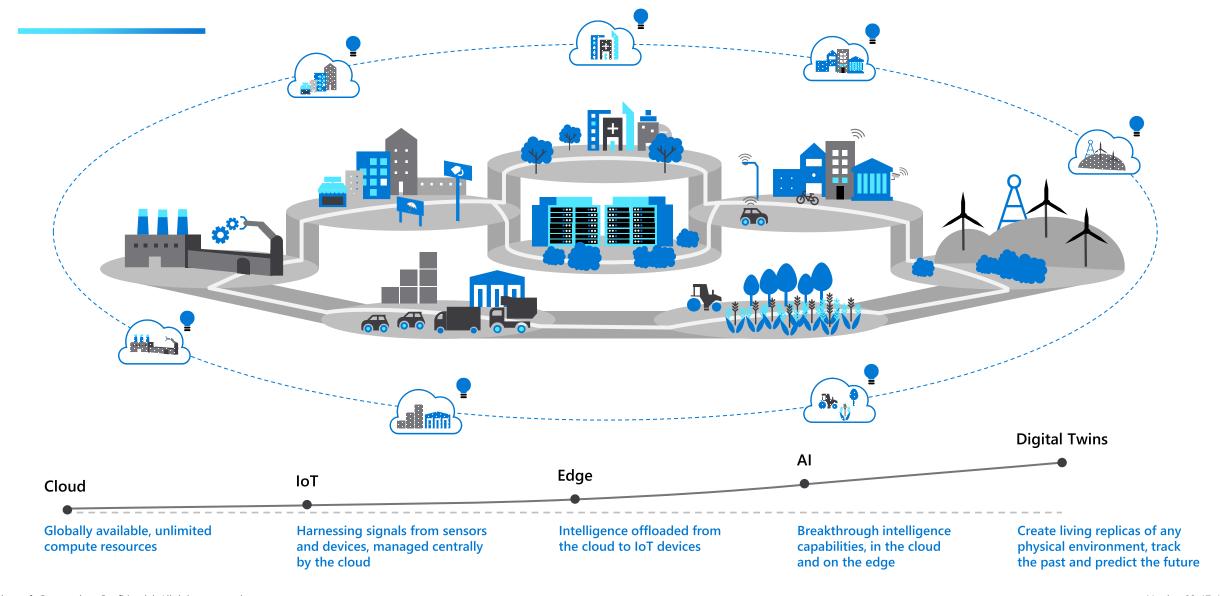
## Where do you find yourself on the curve?



## BI + Analytics unlock the door to AI, machine learning, and real-time insights



### Innovations enabling new opportunities



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## Today's data realities



Volume



Variety



Velocity

What data do I have?

Break down silos

Is it **trustworthy?** 

Can people access the data

needed to make the right decisions?

How can I

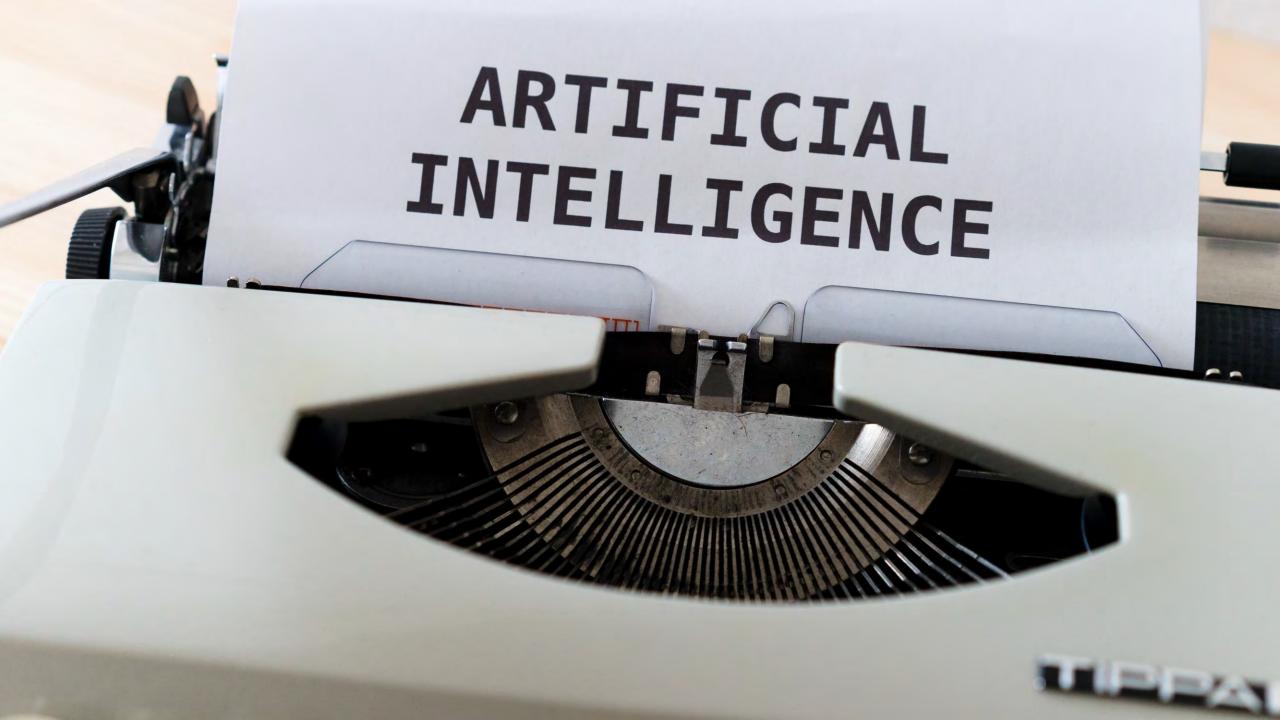
Democratize access to insights

enable faster business insights?

Upgrade legacy to cloud

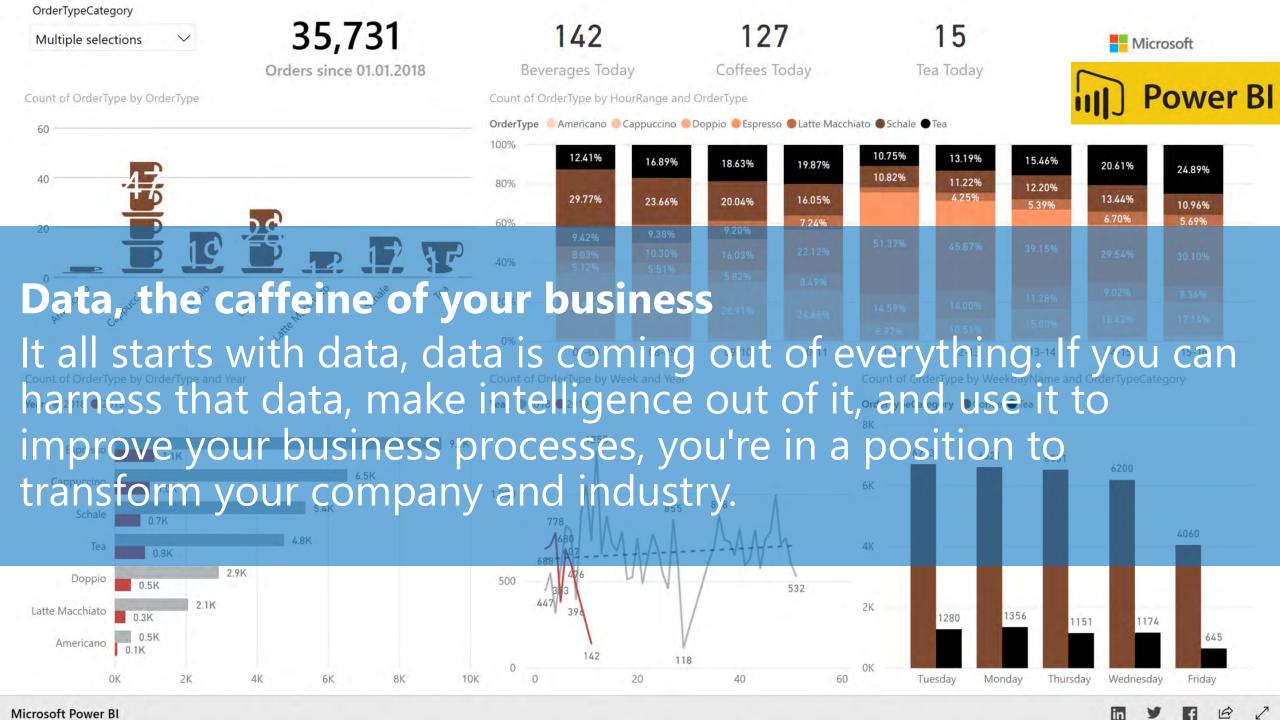
What's my compliance exposure?

Ensure data privacy and governance









## Humans + artificial intelligence



### Advances that make Al real

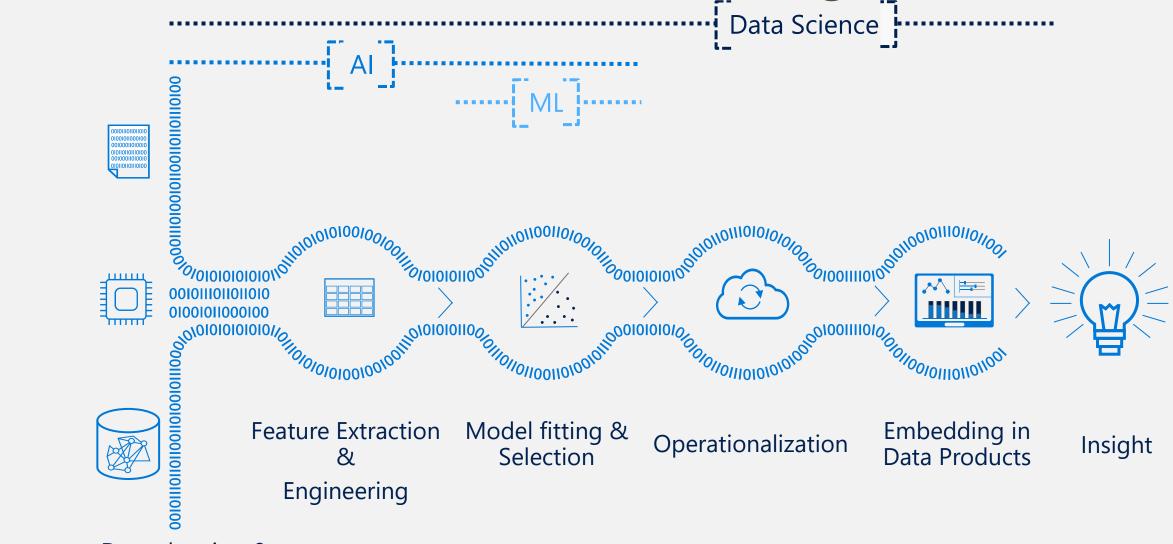
Vast amounts of data



Huge computational power



## Data Science, Machine Learning & Al



Data cleaning & integration

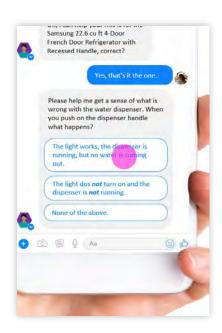
## WHAT?



## Explore patterns for AI solutions

## New generation of business agents

B2B, B2C, B2E



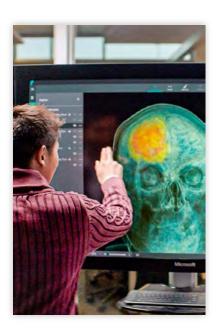
## Person, object, and activity detection

Retail, manufacturing, security



## Al assisted professionals

Marketing, legal, financial



## Knowledge mining

Documents, video



## Autonomous systems

Vehicles, networks, RPA





Objects pen (85%) Tableware (50%)

Text

Brands

Text extracted

SIMON AS THE HOCK THAT SNOWS BUILT ON

Weekend

JUST A LOGO

The New york Times

The downfall

Attack tests

U.S. pledge

of Canada's

to defend

dreamboat

Today!

**Gulf allies** 

Next steps / ongoing projects

Microsoft us Google

during has

My trend was

redeering to hope

United Suses, a

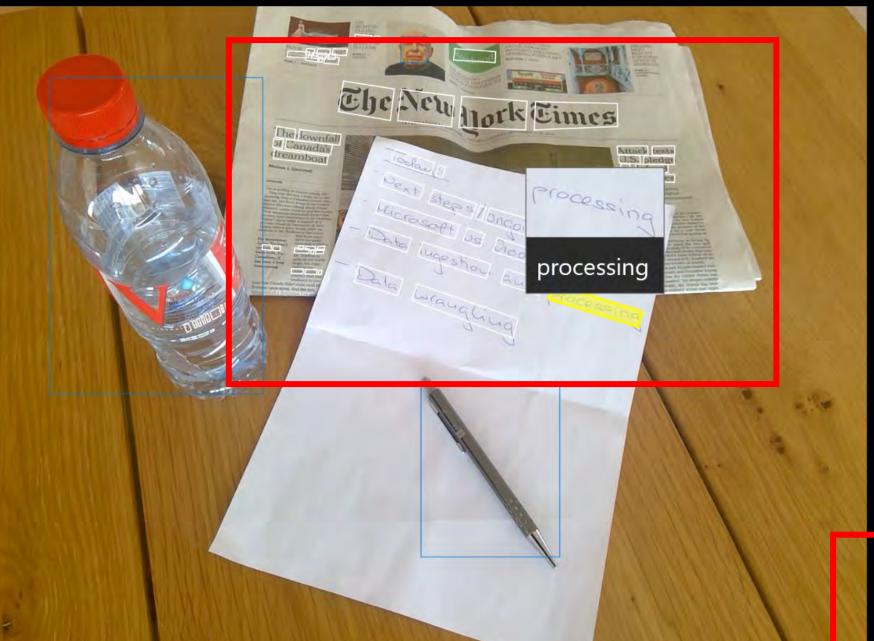
Data ingestion and processing

Data wrangling

. . . . . . . . . .









https://blogs.technet.microsoft.com/machinelearning/2016/09/02/microsoft-and-liebherr-collaborating-on-new-generation-of-smart-refrigerators

#### **Example Use Case: Digital Signage**



#### Retail

Promotion / Upsell

#### Office / Conference Center

- Corporate Comms
- Begrüssung für Gäste



#### \_\_ NEW!

#### Franke Touchless: no need to touch the display of the coffee machine

#### Franke Touchless offers the possibility to

- Scan QR code to open web app with your personal device (no installation needed)
- Select from available beverage menu and confirm dispense on your device

#### **Pre-requisites**

- Connected and centrally managed CM
- "Step-by-step" selection mode



Your benefit: Offer your customers the possibility to use your coffee machine without having to touch the display (e.g. COVID context)





#### **Transactions**



\$48.20

\$39.47K

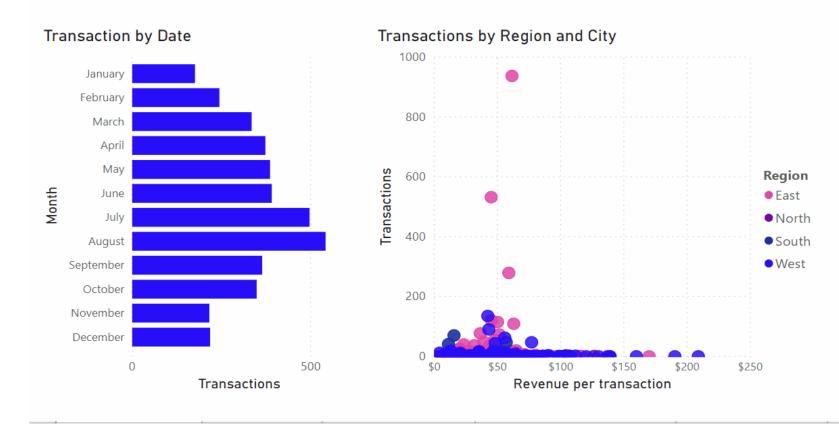
62.53%

**Transaction Count** 

Average Size

Revenue

Revenue YoY%



- Per visual or page-wide English summarizations of data
- Automatically updated when filtered







KITRO bietet Restaurants und Kantinen eine innovative Lösung zur Reduzierung vermeidbarer Lebensmittelabfälle. Damit möchte KITRO dazu beitragen, das wachsende Problem des Lebensmittelmülls zu lösen und Restaurants dabei unterstützen, auf eine effiziente und mühelose Art nachhaltiger zu arbeiten. Die automatische Analyse relevanter Daten ermöglicht neue Erkenntnisse und hilft dabei, Lebensmittelabfälle zu reduzieren und dadurch Kosten zu sparen.

#### **WENIGER ABFALL**

Reduzieren Sie ihre vermeidbaren Lebensmittelabfälle um 60%

#### **MEHR GEWINN**

Profitieren Sie von einer Erhöhung der Lebensmittel Gewinnmarge von 2-8%



https://www.kitro.ch/



#### **WIE FUNKTIONIERT ES?**

Das Produkt besteht aus einem Gerät mit Kamera, welches über dem Müll installiert wird. Die Waage darunter misst das Gewicht. Mit neuster Bilderkennungstechnologie können die Nahrungsmittel automatisch und ohne Zeitverlust gemessen und identifiziert werden.

Die Zutaten und Menus werden zusätzlich mit ihren jeweiligen Kosten verbunden und es wird zwischen vermeidbaren und unvermeidbaren Abfällen unterschieden.



#### **FALLSTUDIEN**

Luxus Hotel Bistro

1 Monat

1 41%

vermeidbare Lebensmittelabfälle

1 24%

Kostenreduktion

#### **BERICHTE & EVALUIERUNG**



Alle zwei Wochen sendet KITRO einen Bericht, welcher die Daten zusammenfasst und die Hauptquellen des Abfalls aufzeigt. Mittels relevanten Empfehlungen und neuen Erkenntnissen können Sie ihren Betrieb effizienter und ressourcenschonender betreiben.

70%

aller gemessenen Abfälle werden erkannt

### Universitätskantine 3 Monate

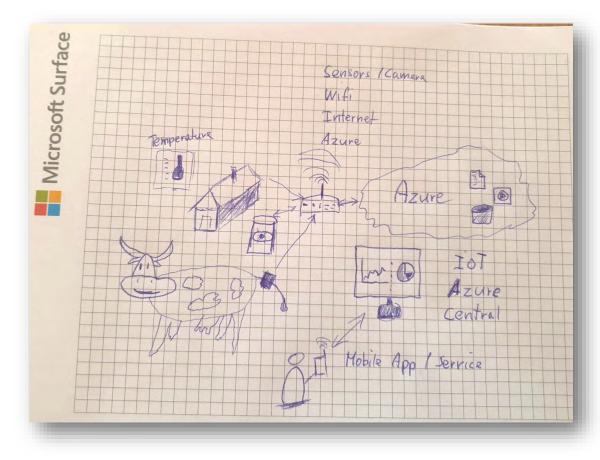
↓ 34%

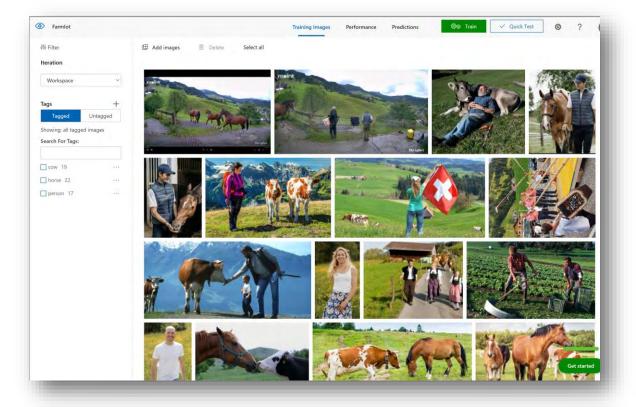
vermeidbare Lebensmittelabfälle

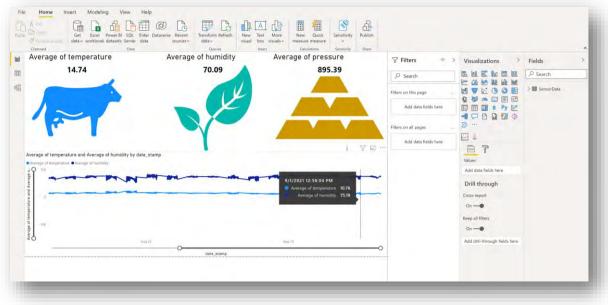
↓ 50%

Kostenreduktion

# Data Analytics Dashboard IoT Machine Learning / AI









Live View

Playback









Connected

YbrigB **♦** Connected









Image Detail

<sup>9</sup> Undo Changes



Regions Shown



Suggested objects on

Tags

Tagged

Workspace

Showing: all untagge

Suggested Tags

Quickly label your unta with suggested objects

Get suggeste

Suggested Objects

cow (1)

horse (0)

person (0)



#### My Objects



X

To create an object, hover and select the region in the image

#### Suggested Objects

Based on your trained model, we've suggested objects in your images. Click on the objects to modify them.

Only show suggested objects if the probability is above the selected threshold.

Threshold Value: 60%

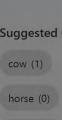
Confirm suggested objects



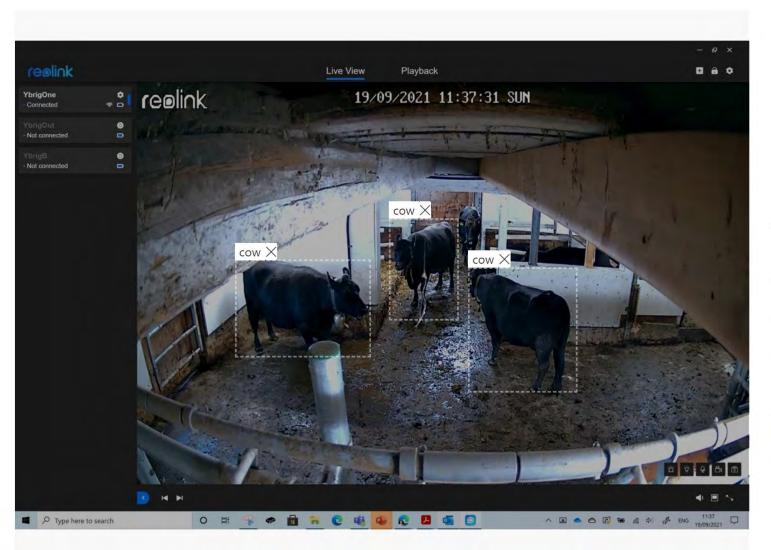
7 Undo Changes

Image Detail

### Iteration Workspace Tags Tagged Showing: all untagge **Suggested Tags** Quickly label your unta with suggested object **Suggested Objects** cow (1)



person (0)



Regions Shown

Suggested objects on

#### My Objects



X

To create an object, hover and select the region in the image

#### **Suggested Objects**

Based on your trained model, we've suggested objects in your images. Click on the objects to modify them.

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Threshold Value: 60%

Confirm suggested objects



Image Detail

7 Undo Changes



Regions Shown



Suggested objects on

Workspace

#### Tags

Tagged

Showing: all untagge

#### Suggested Tags

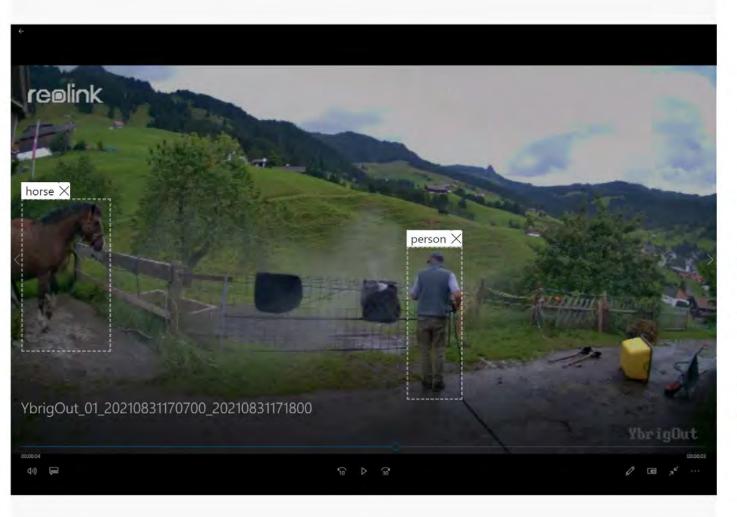
Quickly label your unta with suggested objects

#### Suggested Objects

cow (1)

horse (1)

person (1)



#### My Objects



To create an object, hover and select the region in the image

#### Suggested Objects

Based on your trained model, we've suggested objects in your images. Click on the objects to modify them.



X

Only show suggested objects if the probability is above the selected threshold.

Threshold Value: 60%

Confirm suggested objects



Wait a minute, AI, ML or Deep Learning?



## Today's data realities



Volume



Variety



Velocity

What data do I have?

Break down silos

Is it trustworthy?

Can people access the data

needed to make the right decisions?

How can I

Democratize access to insights

enable faster business insights?

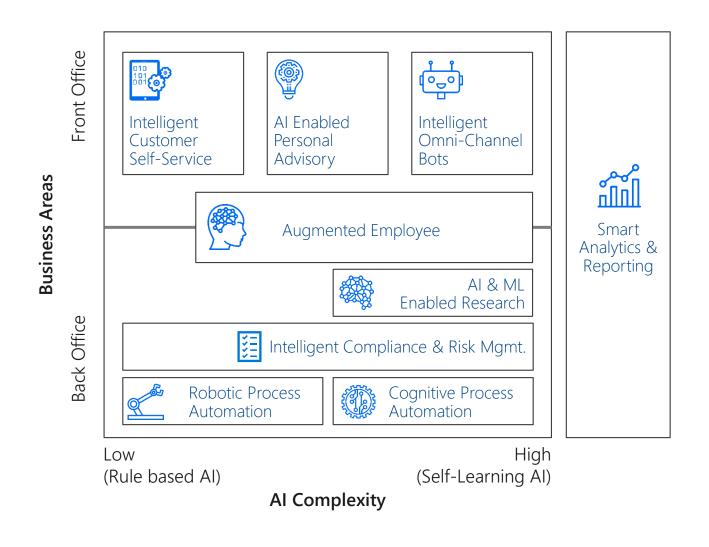
Upgrade legacy to cloud

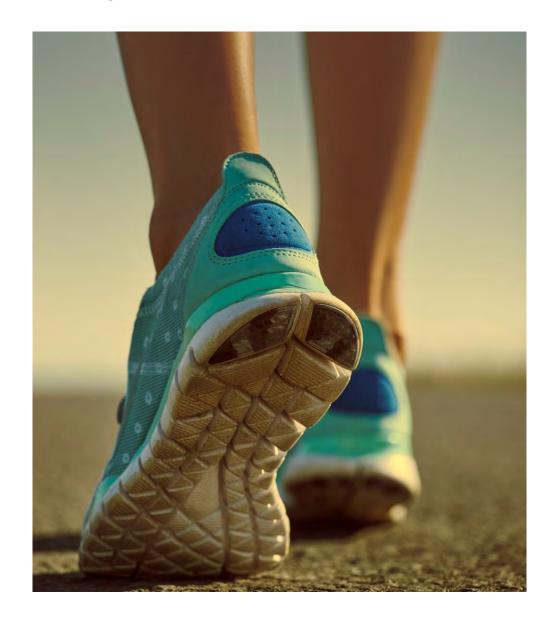
Ensure data privacy and governance

What's my compliance exposure?

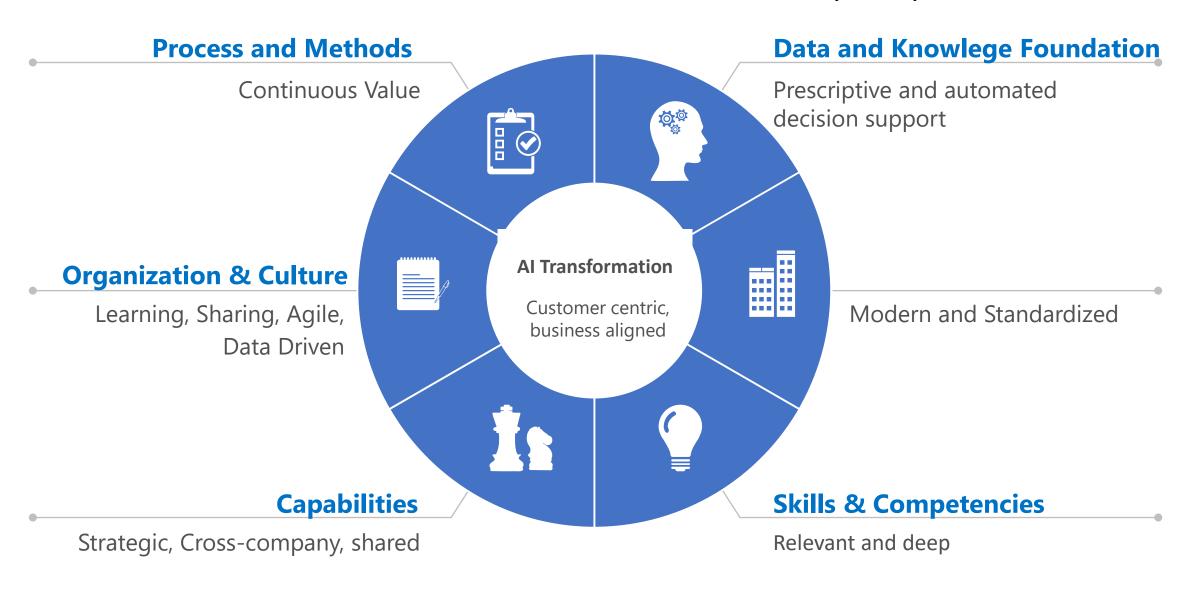


# Steps to a Data Driven Company (Example)

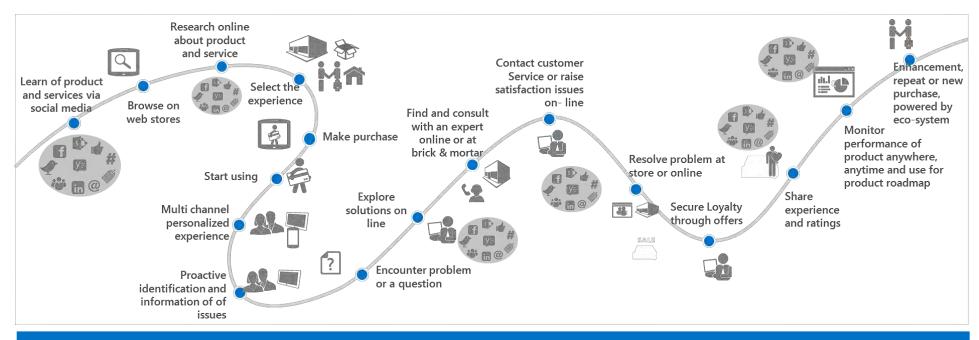




# Build Al Maturity Capabilities



# Customer Experience Journey Map



### **Digital Hotspots**

#### **Pre-Purchase**

- Digital presence for products and store awareness
- Omni channel purchase
- Multi channel distribution and interactivity

#### **Purchase**

- Omni channel, multi device solution for purchase
- Customer support
- Arranging payment
- Tracking shipment

#### Post-Purchase

- Social network presence and management
- Receiving customer service
- Resolving problems anywhere
- Continued the experience
- Developing eco-system

# Patient experience journey map



DIGITAL HOT SPOTS

#### **Prior to Visit**

Seeking healthcare information, remote triage Choosing a physician or caregiving facility for treatment

Appointment scheduling and reminders

#### **Diagnosis and Treatment**

Remote interactions with providers

Accessing and sharing electronic health records (EHR)

Al-based provider support

Care team collaboration

#### Follow-up Care

Filling, refilling, and approving prescriptions Remote health monitoring Ongoing patient care and plan reminders



# Develop faster than ever before with the Microsoft Platform

Power Platform



Power BI





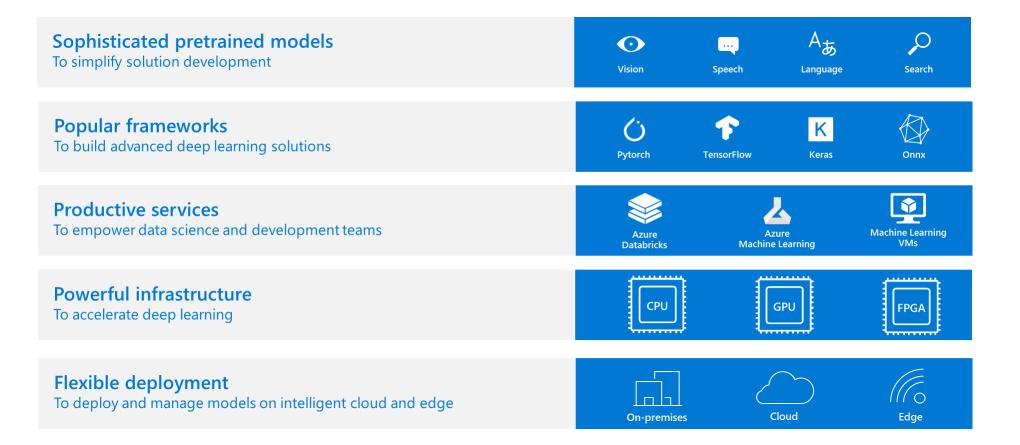
Power Automate



Power Virtual Agents

Design & Create (Low Code)

https://powerapps.microsoft.com/en-us/

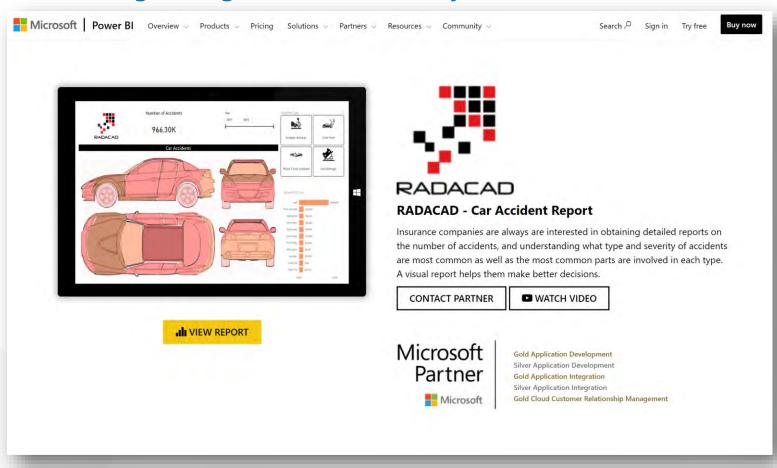


Pro Developer (Code First)



### **Power BI**

### Discovering the right BI Solution for your Business?

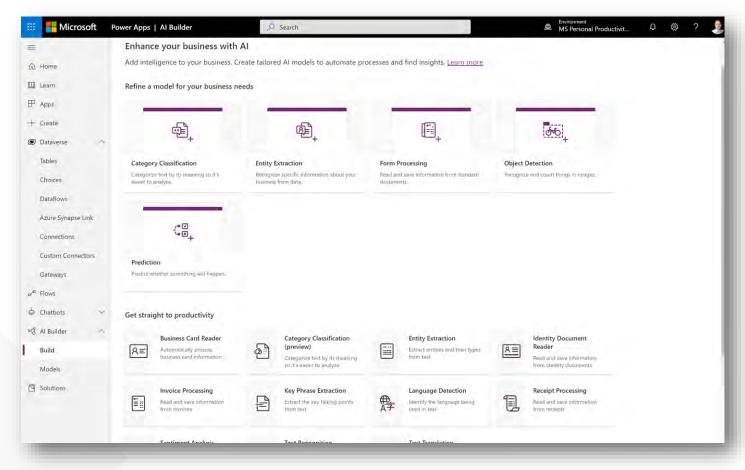


Partner showcase | Microsoft Power BI



## **Power Platform**

### Turn great ideas into impactful solutions



Business Application Platform | Microsoft Power Platform



Claudio Mirti

### Stella Gatziu Grivas Hrsg.

# Digital Business Development

Die Auswirkungen der Digitalisierung auf Geschäftsmodelle und Märkte

#### Zusammenfassung

Von autonomen Robotern bis hin zu algorithmischen Nachrichten, von Produktempfehlungen bis hin zur Verarbeitung von Patientendaten, von virtuellen Assistenten bis hin zur Spracherkennung - Artificial Intelligence (AI) gilt weithin als einer der größten technologischen Umbrüche der Neuzeit (wenn nicht gar als der größte), vergleichbar mit vergangenen Veränderungen wie der industriellen Revolution, dem Computerzeitalter und dem Aufkommen des Smartphones. Deshalb ist es umso wichtiger, sich mit dieser Thematik auseinanderzusetzen, um die Anwendungsmöglichkeiten und Zusammenhänge zu verstehen. In diesem Kapitel werden zuerst die Grundlagen zu AI erläutert sowie geklärt, welche Bereiche schon mit dieser Technologie infiziert wurden. Weiter wird erklärt, wie sich AI zusammensetzt und wieso Machine Learning eigentlich die Weiterentwicklung von AI ist. Dies wird mit verschiedenen, bereits existierenden und bekannten Lösungen veranschaulicht. Da wir in einer Welt von Algorithmen leben, sind ethische sowie gesellschaftliche Aspekte im Umgang mit AI-Lösungen wichtig. Darauf wird ebenfalls eingegangen. Anschließend wird gezeigt, welcher Ansatz oder welche Vorgehensweise gewählt werden kann, um AI-Projekte im Unternehmen zu initiieren oder eine stufenweise Annäherung an AI zu ermöglichen.

C. Mirti (S)

Microsoft, Wallisellen, Schweiz

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Agilität des digitalen
Zeitalters managen

3 Start-ups und Unternehmen zu Zeiten der digitalen Disruption

4 Digital Ecosystems

5 Digital Business Innovation Culture – Der Mensch im Fokus

6 Design Thinking – Ein Buzzword, oder steckt doch mehr dahinter?

7 Daten als Treiber der digitalen Transformation

8 Artificial Intelligence und der Einfluss auf das Business

9 Digitale Transformation
 – Transformation der
 Unternehmen im digitalen
 Zeitalter

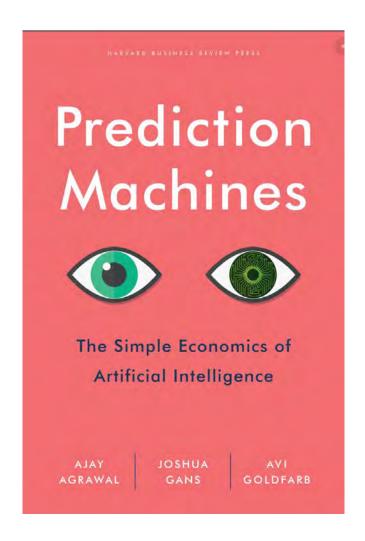
Stichwortverzeichnis

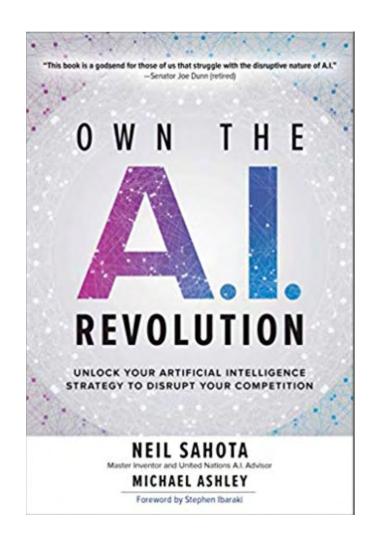
EBOOK INSIDE

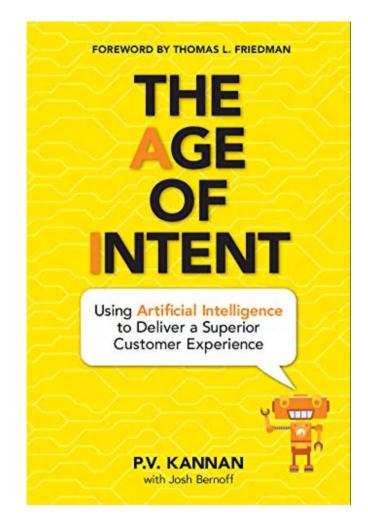


Some book recommendations

# Some book recommendations











THANK YOU.

Claudio Mirti in



