DATA+AI SUMMIT 2023 San Francisco

06/27/2023













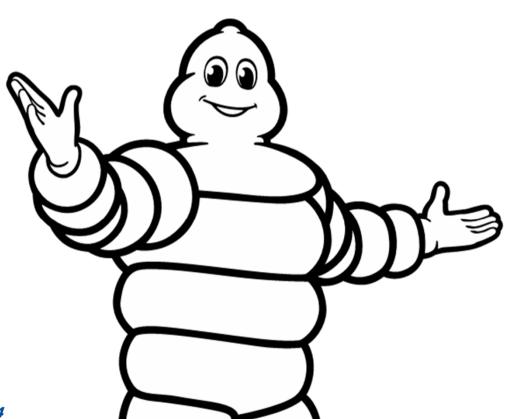








Who are we?





Philippe Leonhart

SmartAutomation & Digital

Transformer

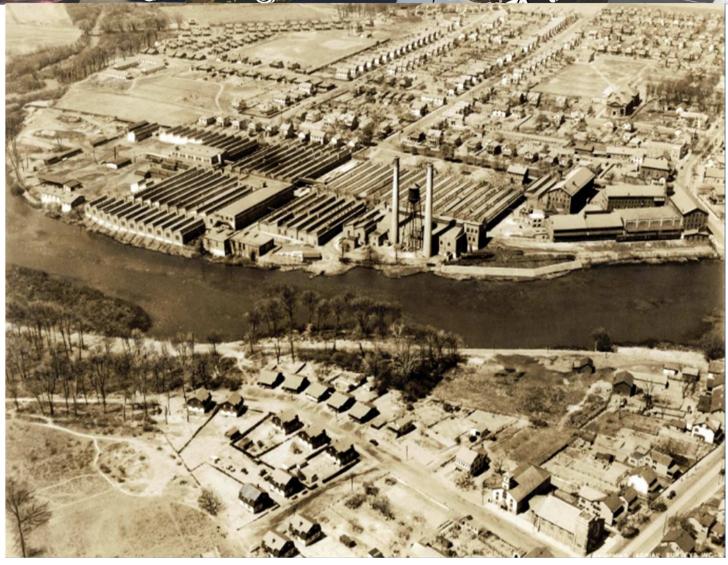


Fabien Cochet

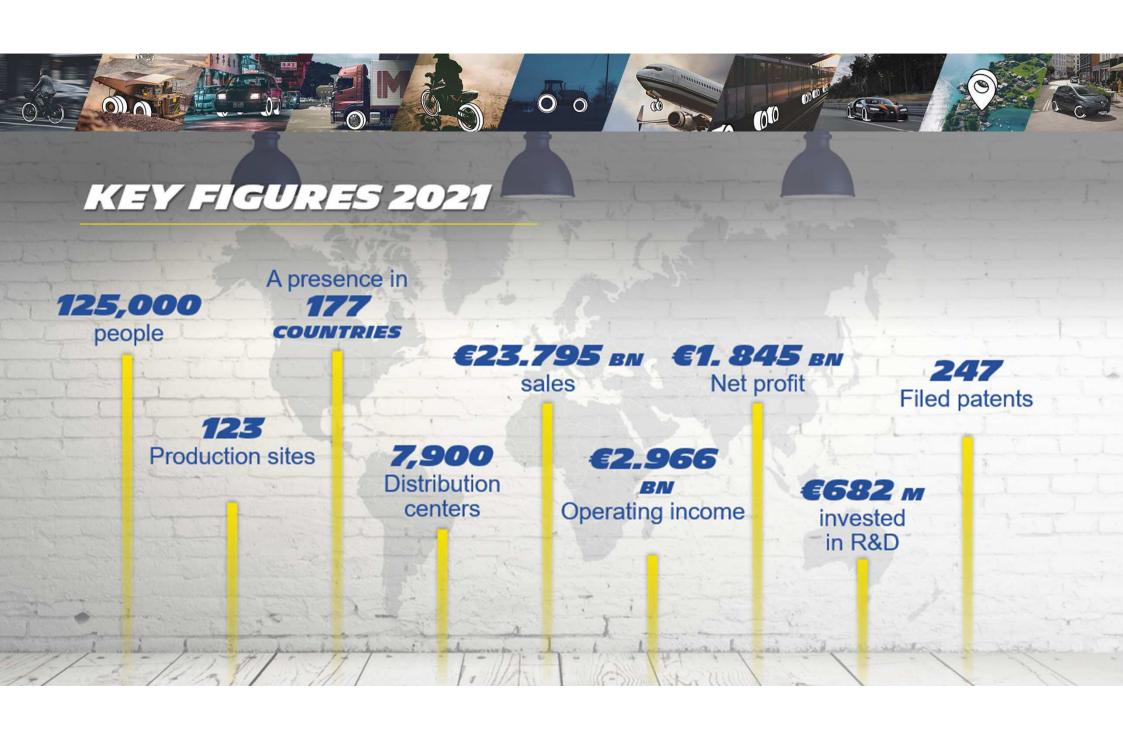
IT Expert on Data&Analytics



















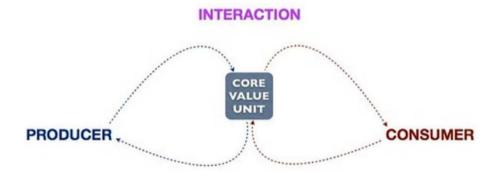


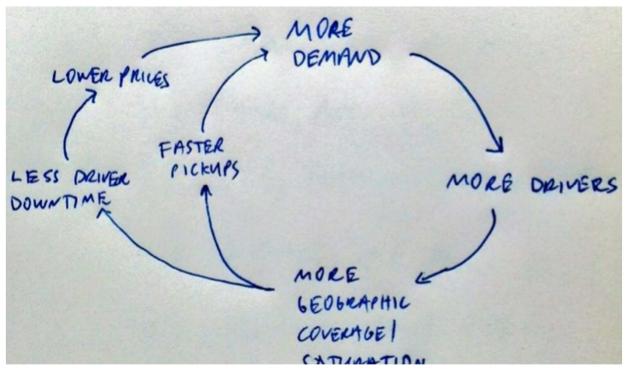






Data Platforms





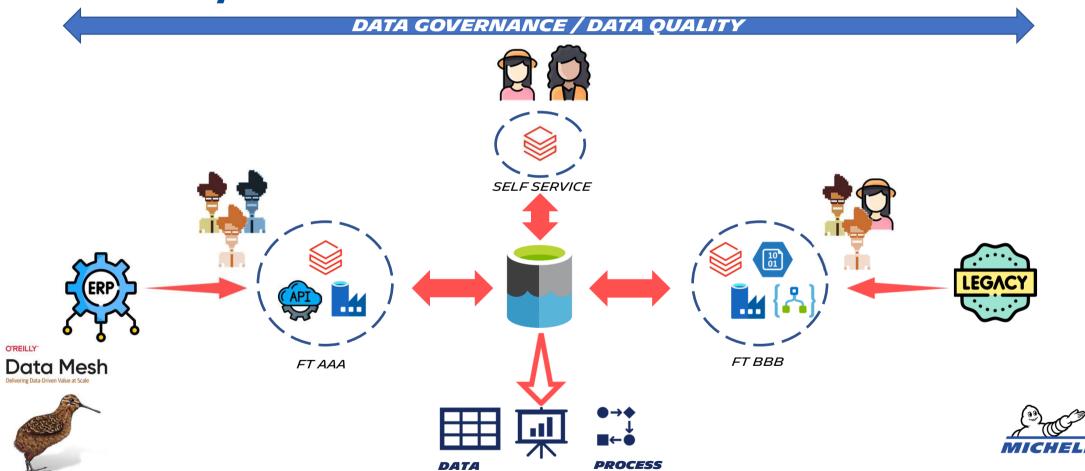




The Corporate Datalake

O'REILLY'

Zhamak Dehghani



MINING

VISUALIZATION



ORDER TO CASH: at a glance!









CHIFFRES CLÉS

2,500,000 Lignes de commandes700,000 Appels traités50,000 Réclamations2,500,000 Factures

02C DATA DRIVEN

Simplifier / réduire la quantité de texte

AS IS

HISTORIC INDUSTRIAL COMPANY

Value of Data for infrast

- Need for data and automated reporting pulled by lean management
- Usage of Data is very manual with excel as primary tool
- Sharing of Data / Usage of shared Data :
 - Mix of data store and extraction of data in live application.
 - Too few Data in CDL & not used due to bad experiences.

TO BE DATA AS AN ASSET

Value of shared Data across silo is understood

- Need for data and automated reporting to enhance customer service
- Usage of Data is enhanced through availability in lake, state of the art preparation tool and data visualization
- Recurrent reports are refreshed automatically
- Data of the stream is shared in CDL and combined to data from other streams for more insights.
- Allow first experimentation with data science, Al

NEXT STEP DATA DRIVEN

- Leverage machine learning to support complex decision
- Empowered, augmented human being

DATA FOR CUSTOMER SERVICE IMPROVEMENT

KEY EXAMPLES

TARGETED IMPROVEMENT **DATA REQUIRED**

ORDER CAPTURE **Improve** À garder?

ichelin price vs competition price arget vs. Achievement for given offer ack of availability of competition

PORTFOLIO IMPROVEMENT Propose best option in case of unavailability

Detect and solve issue order execution flow

Anticipate cancelation

Available alternative for non available tires

Order portfolio history Evolution of availability and prices on the market

COST TO SERVE

Propose targeted simplification

Cost to serve for practices vs customer vs turnover generated

PERIMETER







Europe Remplacement (RT)



2 million order lines ≈ 30% of group turnover



(RE)Understand core Data Engineer rich dataset Automatize the reporting Versatility proof



LOGISTIQUE Europe + Intercontinental



300M€/year Keep factories running Manage crisis

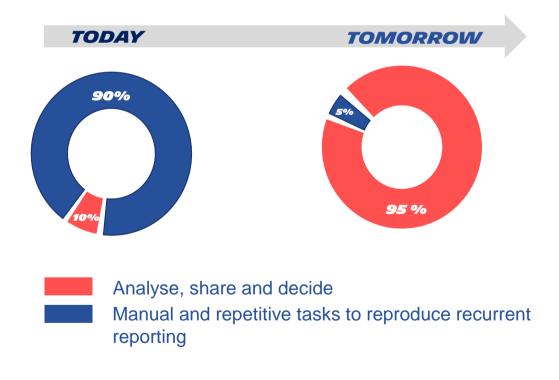


Automatize reporting Facilitate diagnosis

AUTOMATIZE REPORTING



DELIVER ADDED VALUE WITH INSIGHTS PROVIDED THE EFFICIENT WAY





Expectations Be GREAT at BASICS



Prescriptive Analysis

Predictive Analysis

Descriptive Analysis

Curated Data

Exposed Data



HOW TO?

AUTOMATE RECURRENT CHARTS

Support steering with automatically updated data

FACILITATE ADHOC ANALYTICS

Deliver insights for strategic decisions, validate projects

SUPPORT EXPERIMENTATION BASED ON DATA

Data available in the cloud, ready to be used

MAIN COMPONENTS

CENTRALIZED STORAGE OF ALL USEFULL DATA

One reference data source

Data as "raw" as possible

Ideally keep Data scheme : Doc of SI = Doc of stored Data



AUTOMATIC UPDATE OF RECURRENT REPORT

Automated refresh of recurrent Dashboard/Charts/Indicators



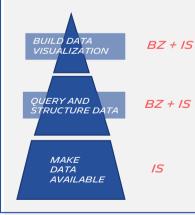


ORGANIZATION

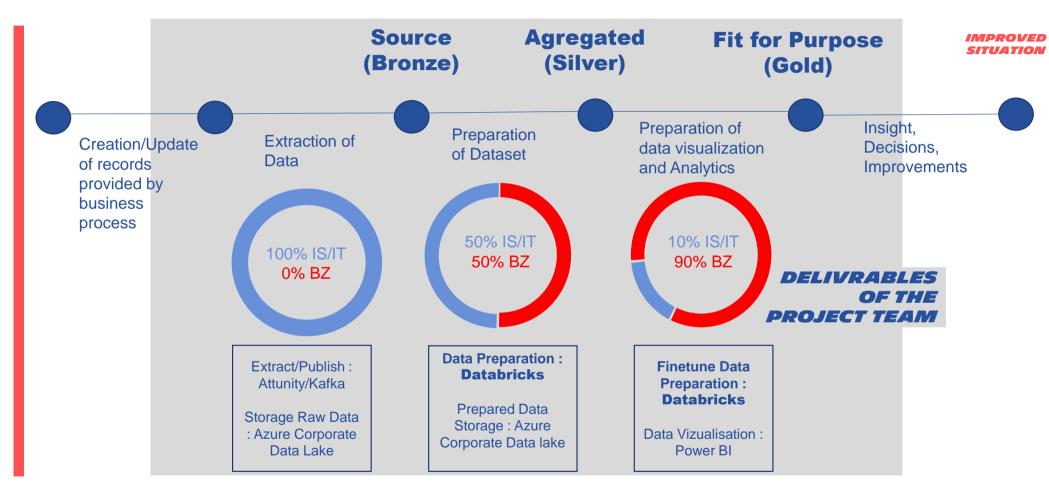
IDENTIFY ORGANIZATION TO DELIVER INSIGHTS

In traditional tools, data visualization build by IS/IT

Experimentations show opportunity to leverage business experts trained on data visualization



BUILD: PROCESS, ACTORS, TOOLS



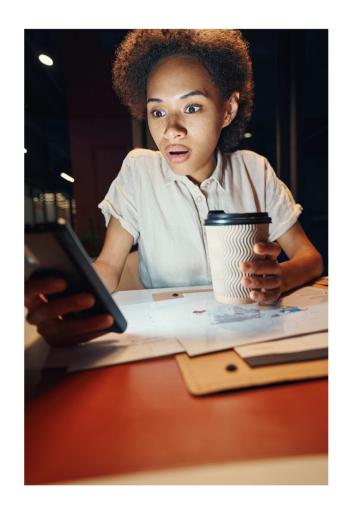
KEY LEARNINGS

Fear of the prompt can be beaten

Business can create scripts (fast)

Business need IT to make scripts better

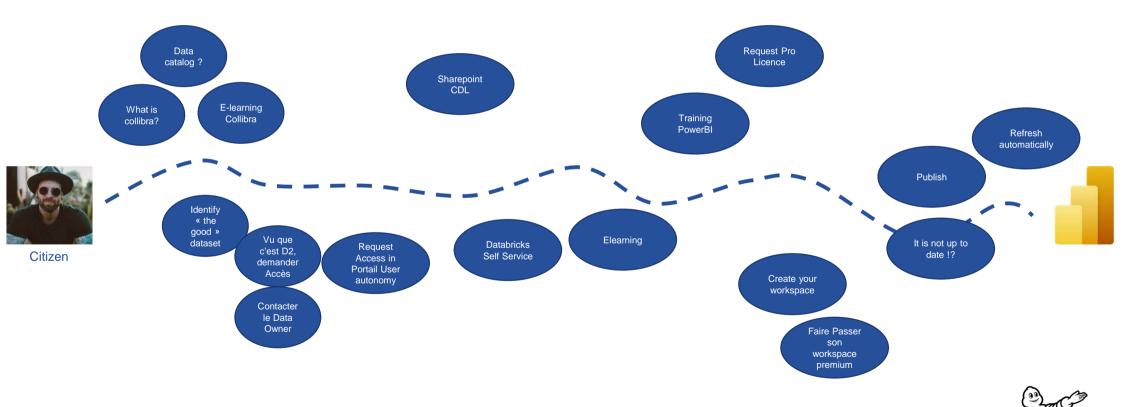
Collaboration is key for sustainability







A NOT SO EASY PATH



MICHELIN



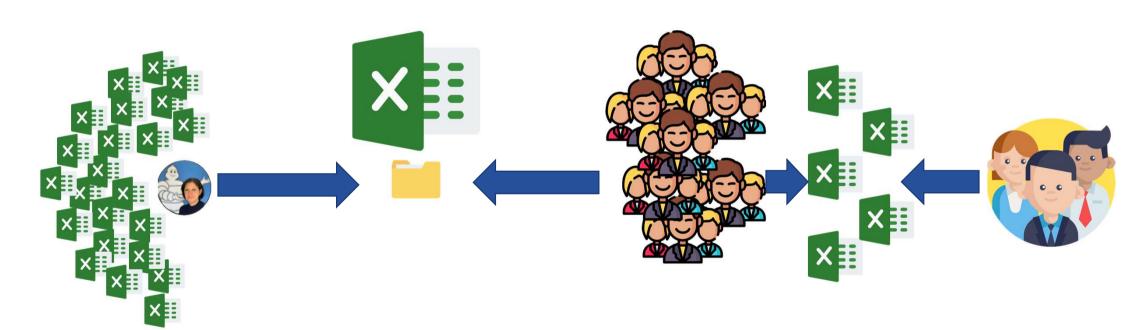
SUCCESS STORY

«BASED ON REAL EVENTS»





BACK IN 2020...

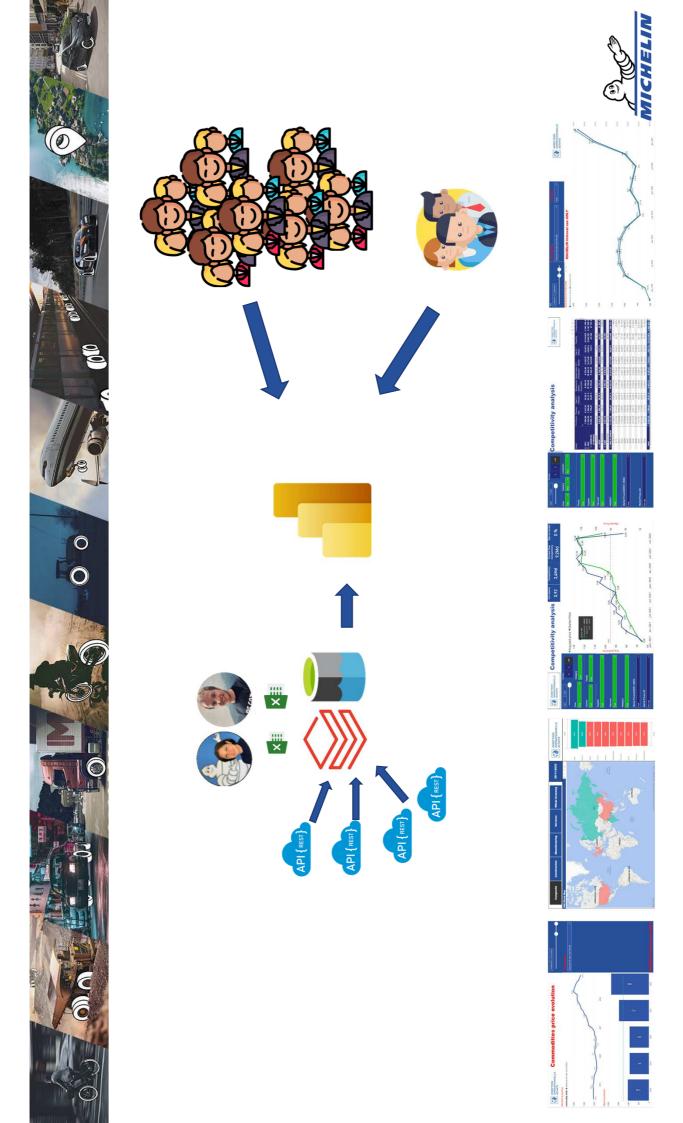


















« La captation d'une partie de la data se fait en automatique avec API ou autre.

Rapports PBI automatisés pour représenter des évolutions de prix des matières premières et prix marche de commodités, évolution de capacités de production, analyse de compétitivité prix d'achat vs prix marché etc

Autonomie d'utilisation CDL, utilisation des rapports PBI – assez élevé. Le besoin évolue dans le sens d'intégration de plus de data sur des domaines différentes énergie, logistique par zone – analyse d'évolution + corrélation par zone.

Probabilité de revenir – 100% 🚱 »





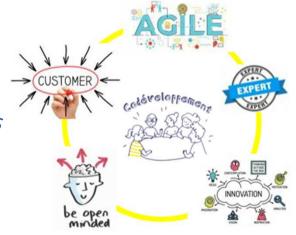
BENEFITS FOR BOTH SIDES



SUPPORT, MENTORING

BETTER UNDERSTAND BUSINESS AND WHY WE DO WHAT WE DO

GET SOME FRESH AIR, OUT OF THE BOX THINKING





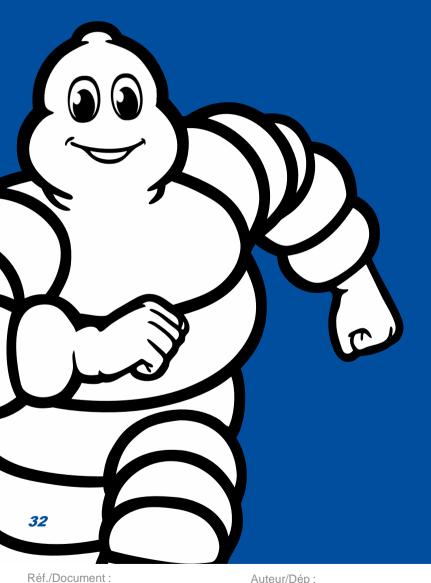
GROW UP ON DATA TECHS

BETTER UNDERSTAND IT WORLD AND CONSTRAINTS

CAN RESHARE HER/HIS KNOWLEDGE WITH COLLEAGUES

WIN-WIN RELATIONSHIP





THANK YOU!



Auteur/Dép:

Date de création :

Classification: D3

Conservation: WA

WE ARE PART OF DATA GOVERNANCE PROCESS

Expose

What

- Define
- Publish
- Document
- •Give access
- Manage quaity
- Cretate diret flows to CDL

Store

What:

- Provide relevant history
- •Data catalogue
- Relevant datamart to gain access, value, performance

Extract Value

What:

- Build Data applications to help SC performance, efficiency, sustainability
- •As contributors to projects
- •As leader of data projects

Help others to extract value

What:

- Spread data usage across the organisation and position
- Ease access to specific data module(data mart or data block)
- Facilitate WW BI/data network

COE Data and Analytics is here



SUPPLY CHAIN DATA & ANALYTICS

4 ACTIVITIES (FOR THE MOMENT...)

BI Business Intelligence

To put in place the foundation of further analysis and show clearly what is the past and current performance.

Actionable Advanced Analytics

To understand performance with a holistic view, to detect action levers, to act automatically locally and globally.

A³

To help to predict what will happen and what to do.

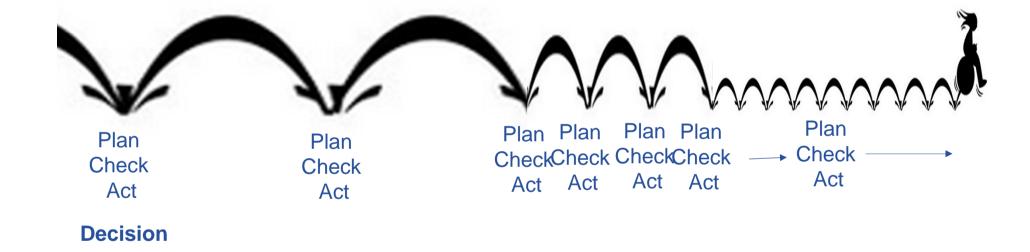
Artificial Intelligence

Al

To help many users to use and get value for our data.

Data Culture





Plan → pour aligner l'organisation
Check → pour vérifier si le plan se réalise
Act → pour adapter le plan à la réalité



LA SC C'EST L'ART DE FAIRE CHAQUE SEMAINE UN PLAN FAUX SUR DES DONNEES FAUSSES EN TOUTE BONNE FOIS ET DE RECOMMENCER

Plan → pour aligner l'organisation

Controle → pour vérifier si le plan à la réalité

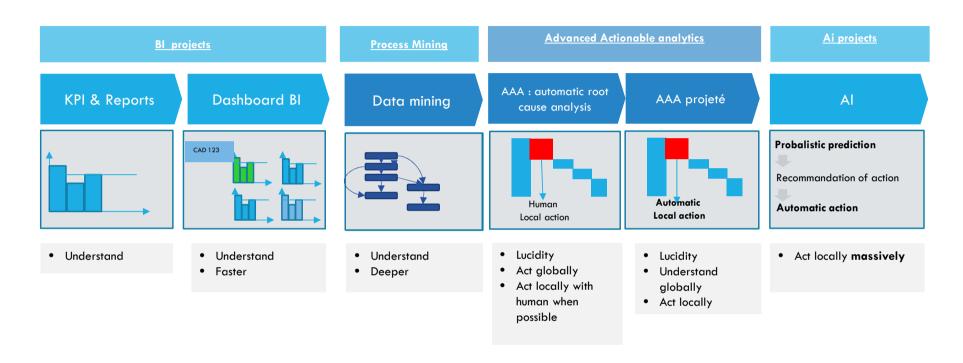
Action → pour adapter le plan à la réalité

Plan -





COE DNA RANGE OF ACTIVITIES FROM BI TO AI THRU ACTIONABLE ADVANCE ANALYTICS AAA





SC Performance

Decision plus rapide et plus Autonome



Advanced Actionable analytics Ai projects Bl projects Dashboard BI Data mining **Probalistic prediction** CAD 123 Recommandation of action Automatic Human **Automatic action** Local action Local action Lucidity • Act locally massively Understand • Understand • Understand Lucidity Faster • Deeper • Act locally and globally

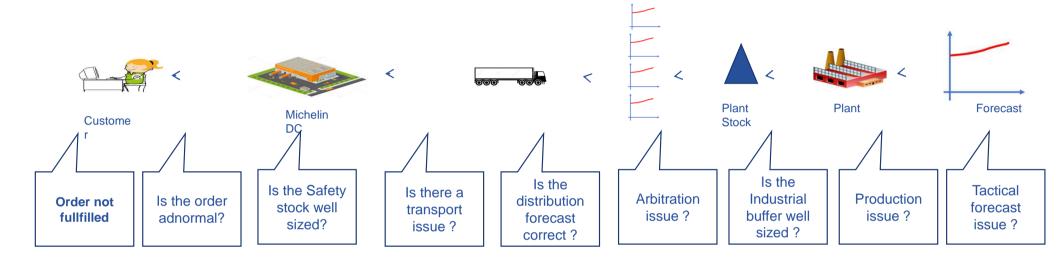
Efficience

SC Performance

Decision plus rapide et plus Autonome



AAA: TOO MUCH DATA AND EVENTS TO ASSESS AND DRIVE SC PERFORMANCE



20 data to analyse for each order not full filled

4 millions data to analyse per week with a service level at 80%

Efficiency loss

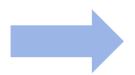
Partial vision no clear vision

Action on wrong causes



NEW FIELD OF DATA USAGE: AAA (ACTIONNABLE ADVANCED ANALYTICS) TO FOCUS USERS ON RELEVANT ACTIONS FOR OPERATIONAL EXCELLENCE

AAA give automatic root causes analysis and relative weight for KPI, with comprehensive data accumulation.



- Efficiency and lucidity
- To act on what matters, globally and locally.
- Substainable reference for performance steering report.

Comparaiso n ATF between EUC and EUN cause & Act on Qualité of forecast EUC

