DASSAULT SYSTEMES

NETVIBES EXALEAD

NETVIBES EXALEAD

DEEP DIVE INTO DATA INTELLIGENCE

CIONET

Laura.valagussa@3ds.com

October, 2020

Our company: 3ds.com

A purpose-driven company

Combining Art, Science & Technology
for a more sustainable world

20,000 passionate people

140 nationalities
195 sites
One global R&D / 69 labs

Long-term driven

Majority shareholder control
Revenue: €4,056 millions*
Operating margin: 32%*

*Figures as of FY 2019 / Non-IFRS

12,600 partners

Software, Technology & Architecture
Content & Online services
Sales
Consulting & System Integrators (C&SI)
Education
Research

270,000 customers

11 industries in 140 countries
25 million users
Game-changing
3DEXPERIENCE platform

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Our belief: 3ds.com

Virtual worlds **extend** and **improve** the Real world

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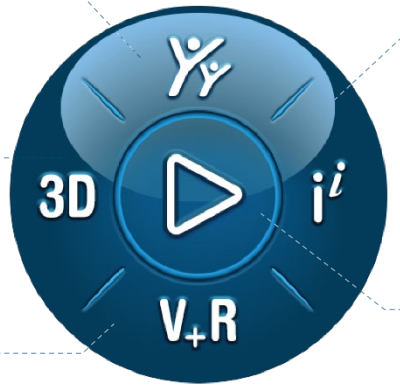
3DEXPERIENCE® platform

Social & Collaborative

Information Intelligence



3D Modeling

Real time **3D**EXPERIENCE®

Simulation

3DEXPERIENCE®

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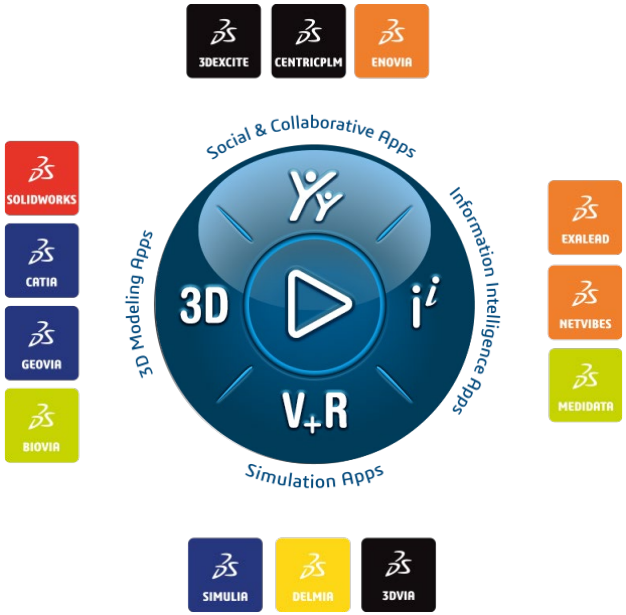
3DEXPERIENCE®
powers our brand applications…



…for 11 industries

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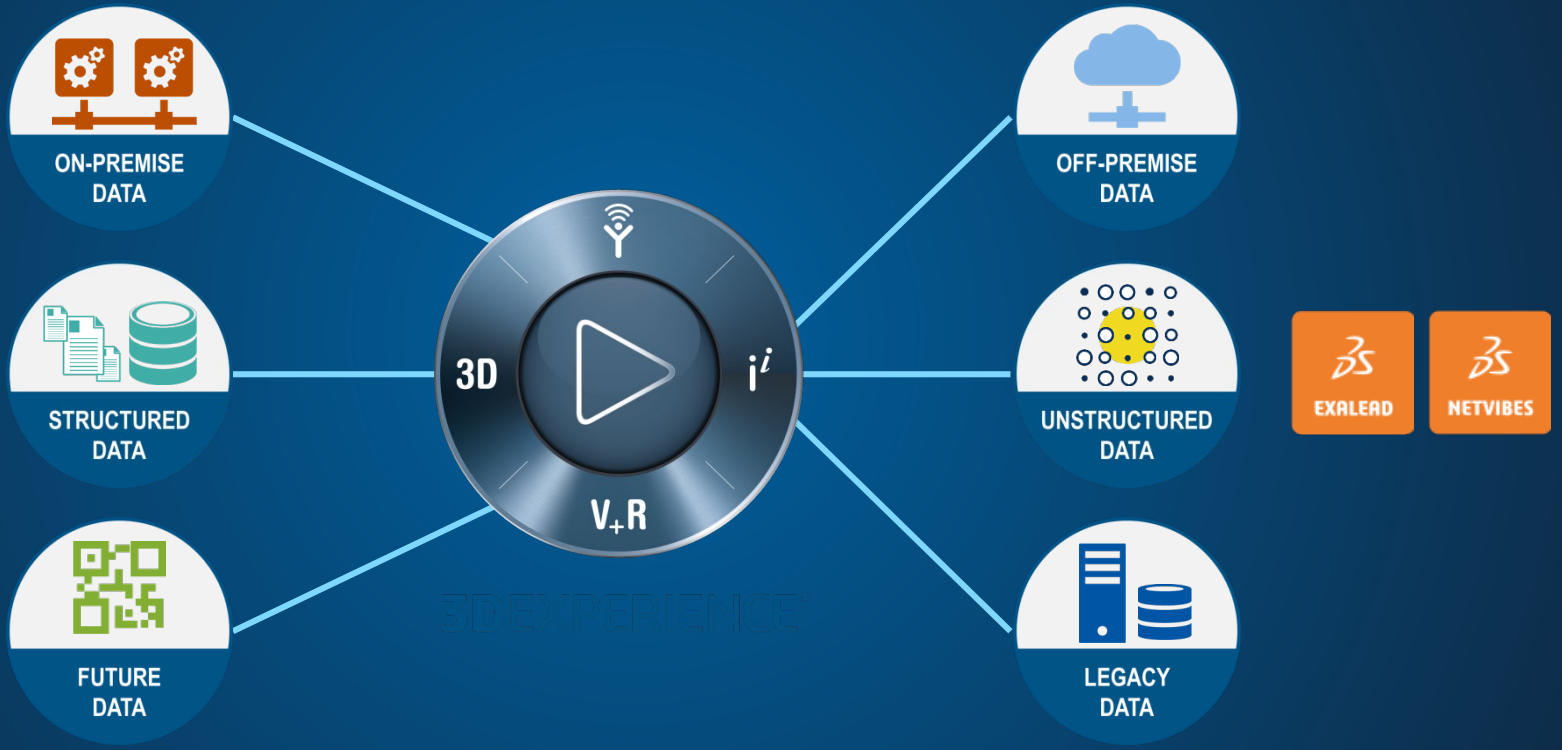
How **NETVIBES-EXALEAD** may **COOPERATE** with **Your Company** ?

Transforming Big Data into a corporate asset



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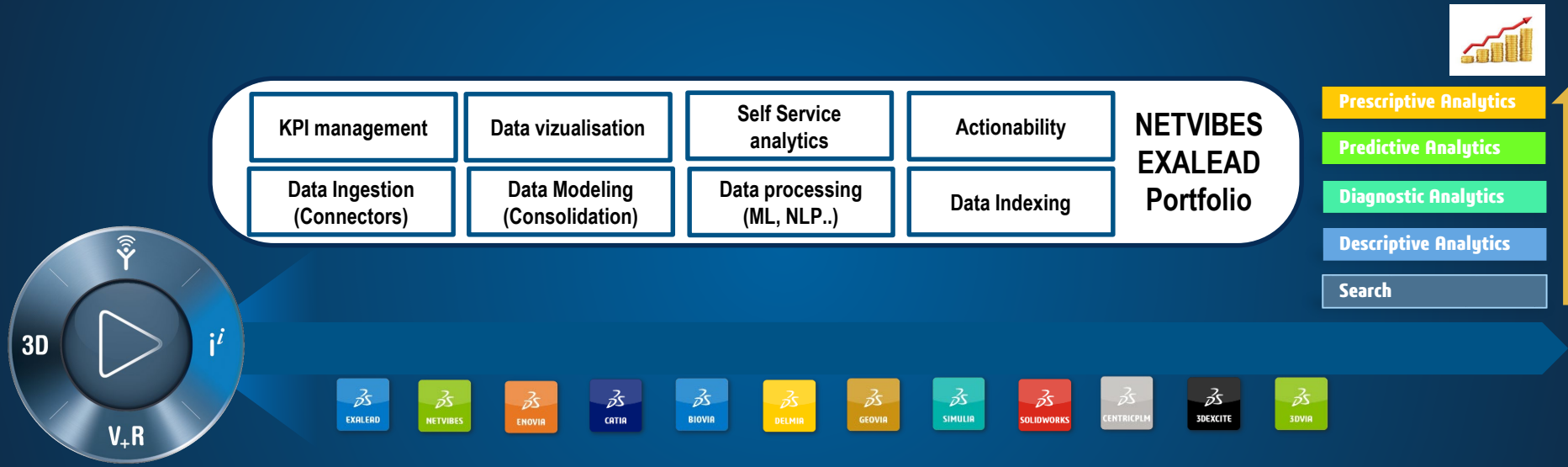
DASSAULT SYSTEMES | The 3DEXPERIENCE® Company

NETVIBES EXALEAD Portfolio

to build analytics and not only, inside the 3DEXPERIENCE Platform



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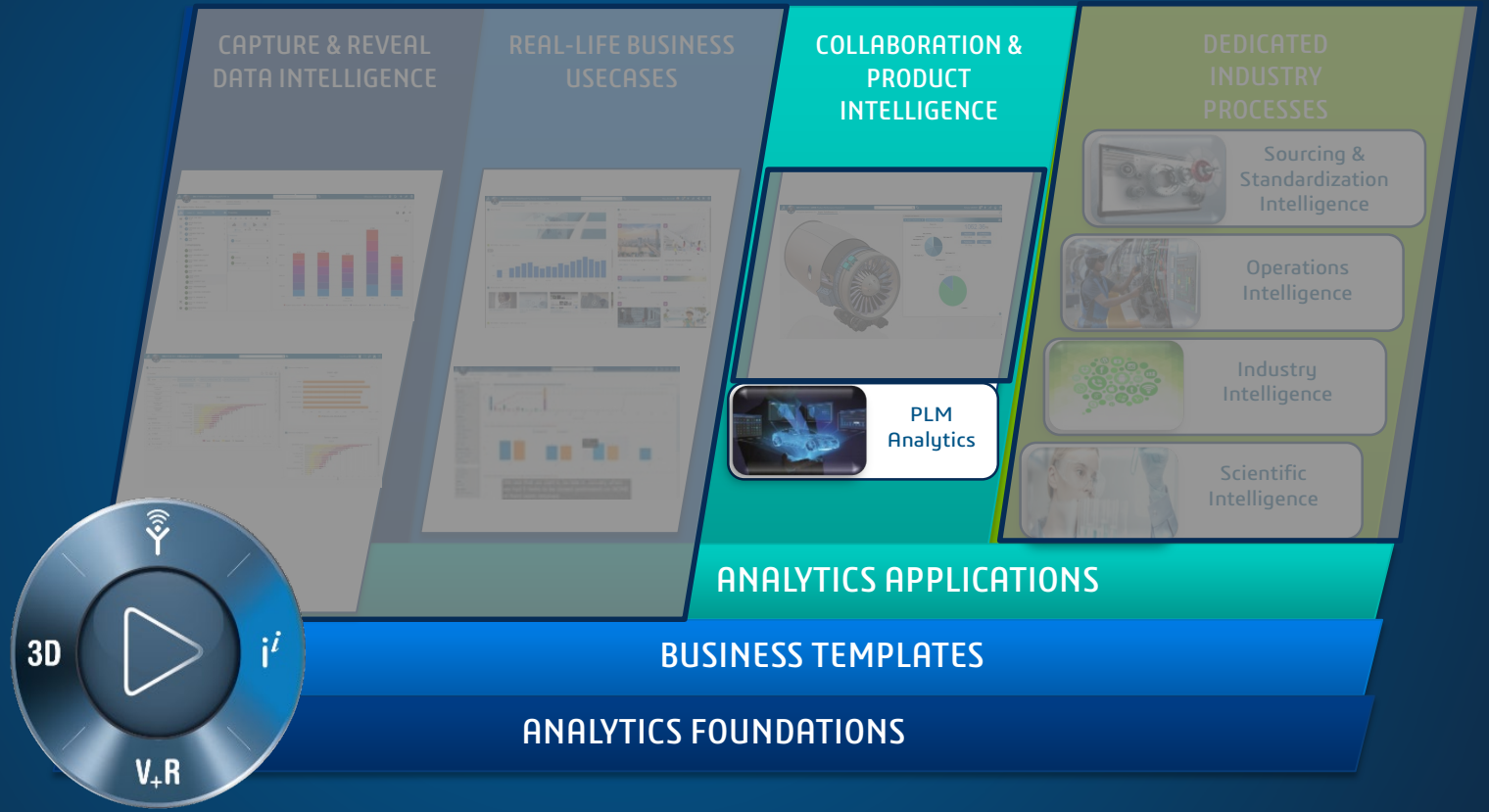
NETVIBES EXALEAD Portfolio

From Big Data to Big Ideas:
Some Examples

1 - NETVIBES EXALEAD Portfolio: **COLLABORATION**



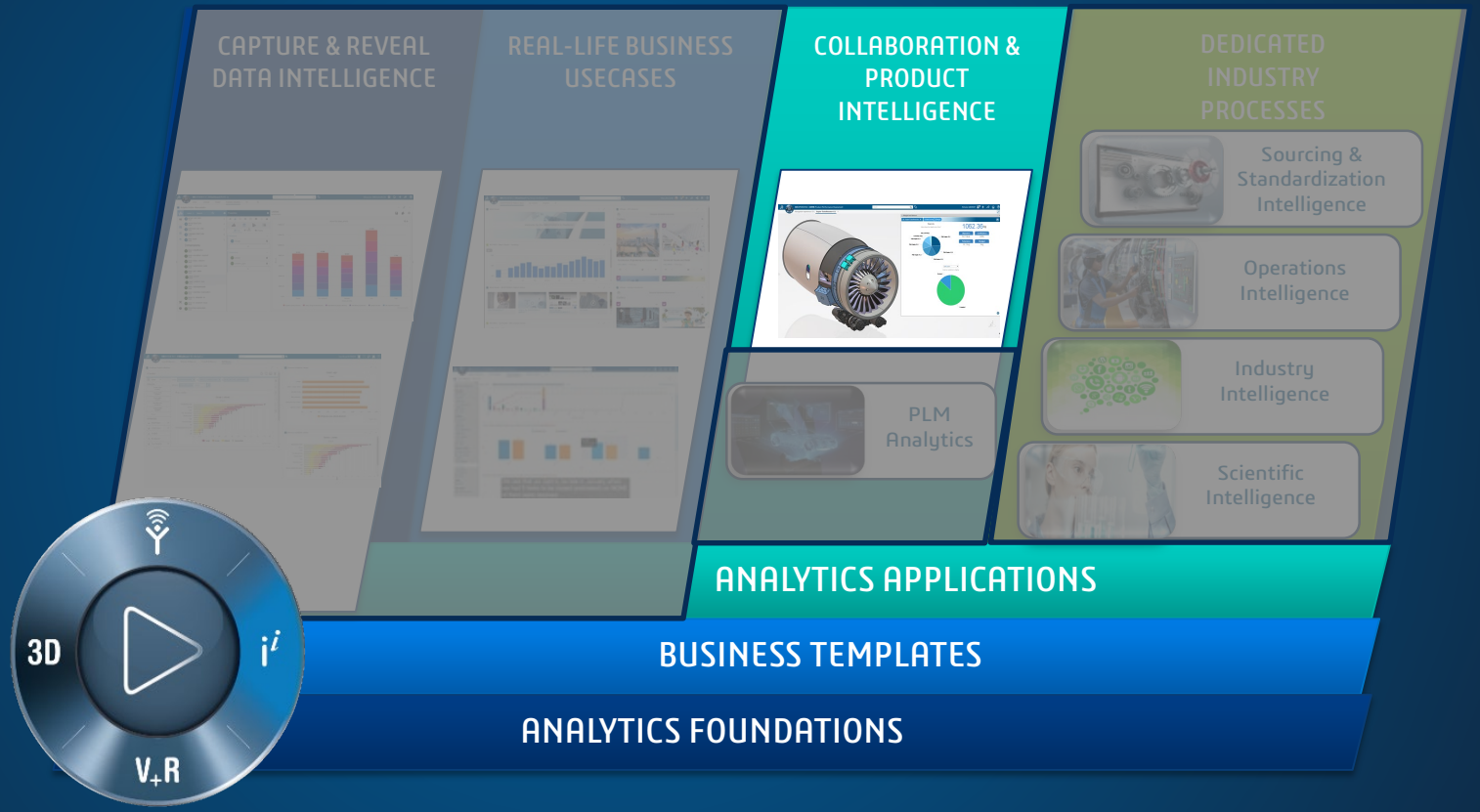
CONNECTING the DOTS

Digitalization

VS

DataSheet, Presentation, Email

2 - NETVIBES EXALEAD Portfolio: **COST INTELLIGENCE**



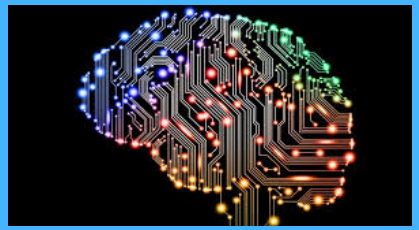
What makes our Data Capabilities so unique?

3 Engines working simultaneously in the **3D**EXPERIENCE **Platform**

SCIENCE:
MOD | SIM

+

DATA SCIENCE
BIG DATA+ML+AI



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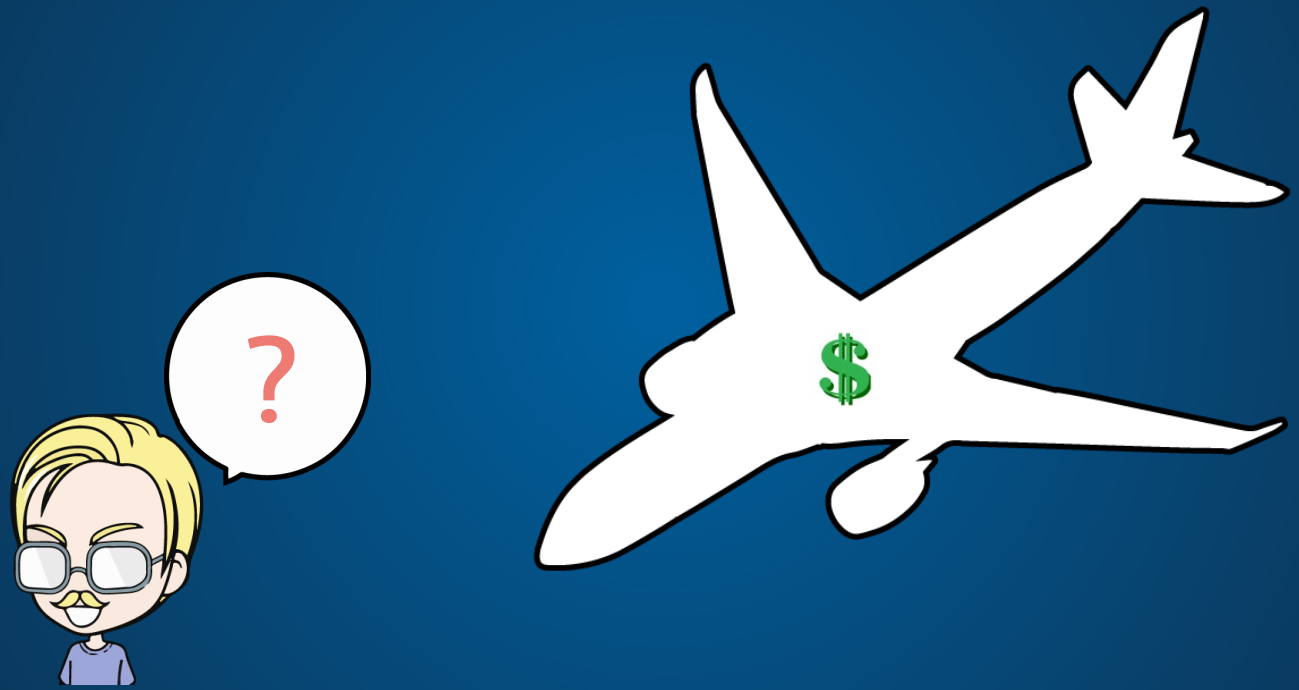
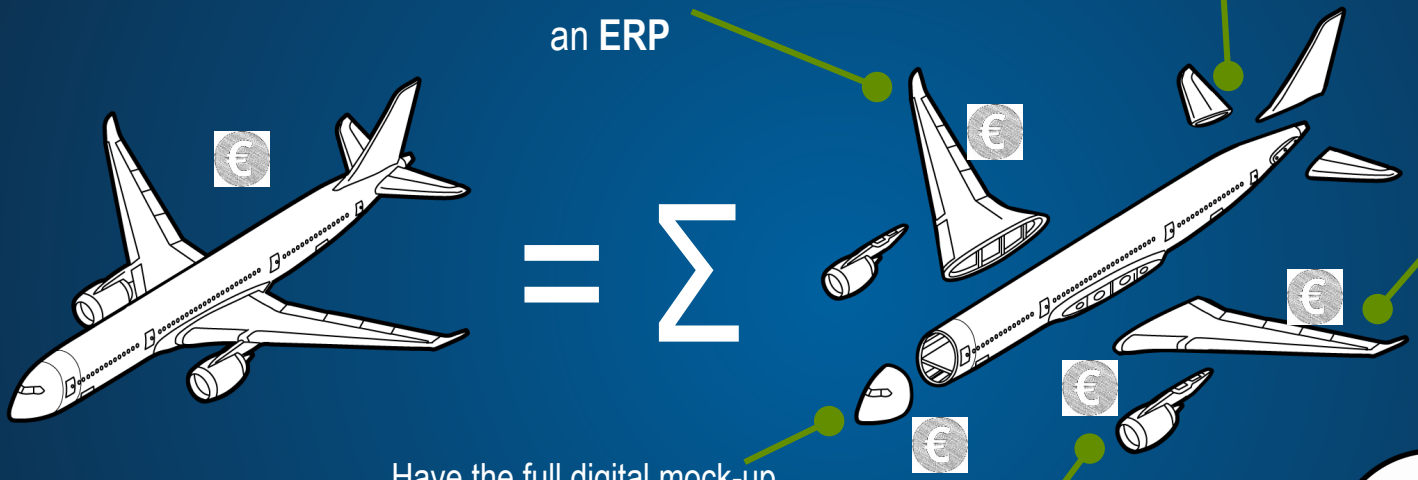
COLLABORATION

World leading companies are reaching the **highest maturity level** by adopting **Model-Based approach**

QUESTION: What is the Cost of my airplane?



ANSWER: The sum of the Cost of its components



Taxes cost information is stored in an **ERP**

Have the full **Manufacturing operations** detailed

Need to **Estimate** its Cost based on my expertise

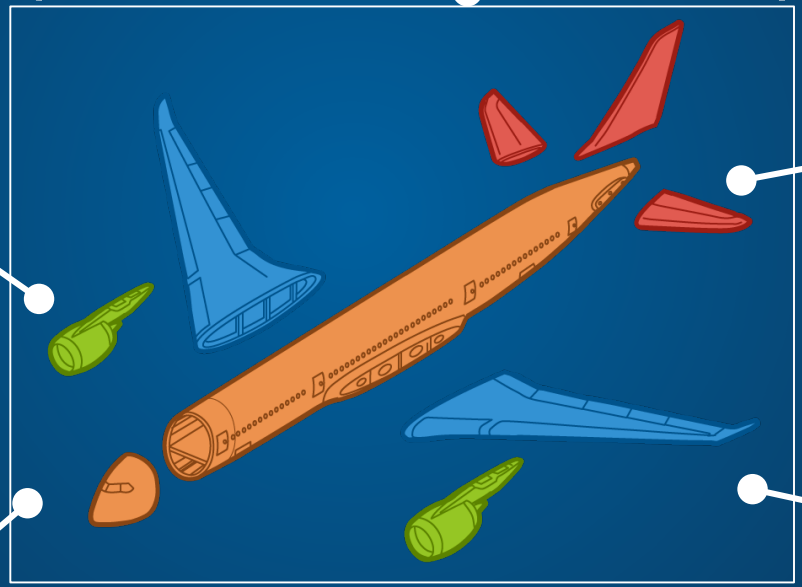
Have the full digital mock-up Designed in **CATIA.** Still not **Manufactured** yet

Part Delivered by a **supplier.** He will **declare** its cost

Data Model | **Cost Lifecycle**

Don't forget that the **target** cost of the global airplane has to be $5M

As your supplier I **declare** that motors cost is $1.2K each. However I will not give you the detailed CAD model, protecting my Intellectual Property

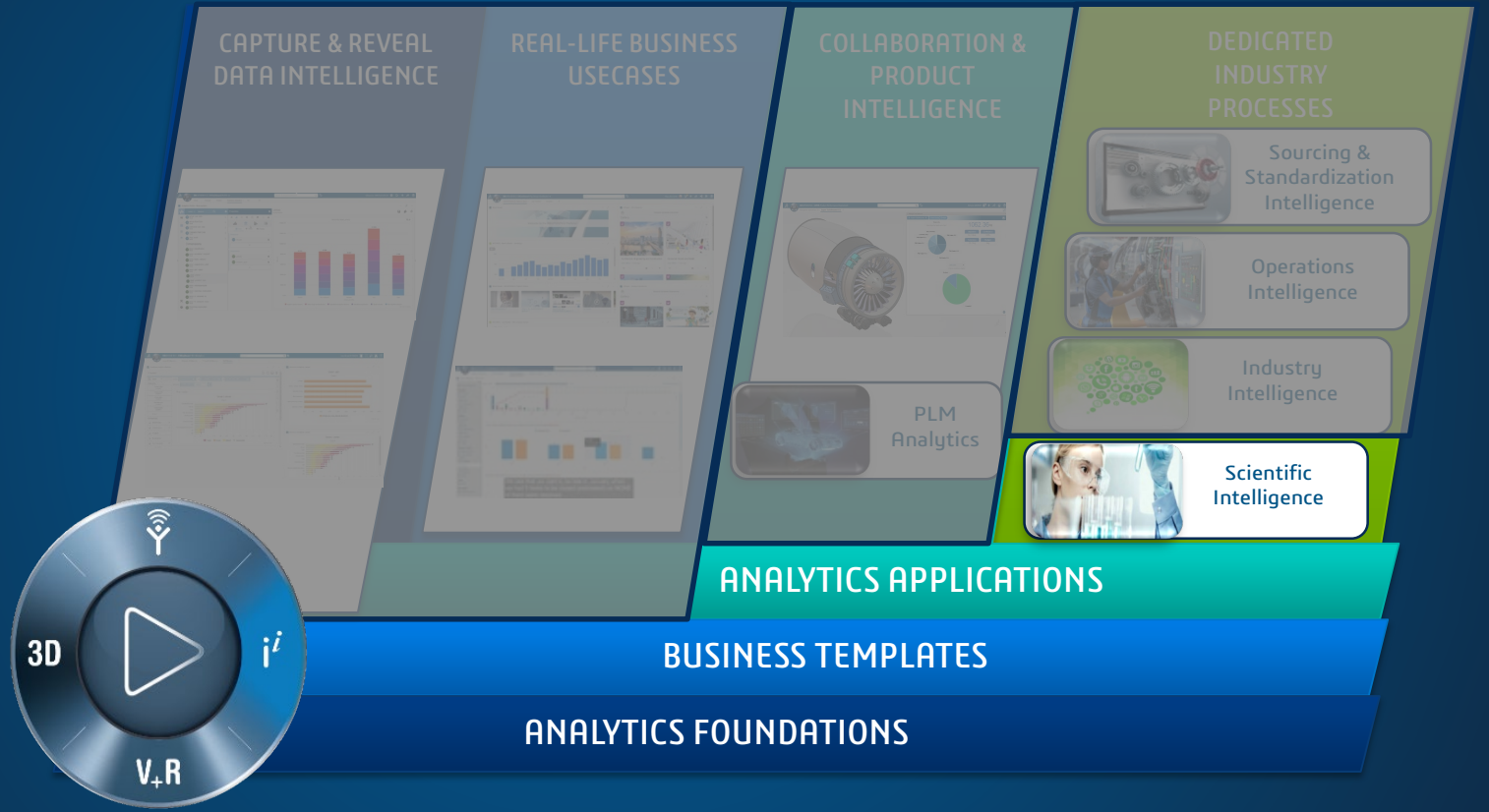


We will completely redesign the empenage, so I will **estimate** the cost for now

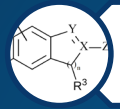
For this airplane, we reuse the existing fuselage with some modifications but we have a statistic paremetric costing for the full digital mock-up of this part so we will **compute** its cost with the App

We will reuse the wings exactly as they are. It's already produced and we can **measure** their cost in real life

3 - NETVIBES EXALEAD Portfolio: **SCIENTIFIC INTELLIGENCE**



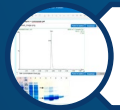
Scientific Data is Diverse…

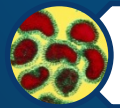

Chemical Structures

Patents & Literature

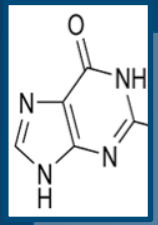
Gene & Protein Sequences

Internal Documents


Experiments


…and more

Scientific Data is “Big…”



Chemical Structures

- 1M-1B Virtual Structures

Raw Materials & Samples

- 2-5M Objects

Biological Sequences (CDNA, RNAi, …)

- 1-20M Sequences

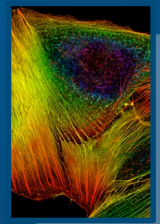
Scientific Articles

- 10K-1M Articles

Assays

- 1-100M End Points

Image via Wikimedia Commons



Confocal Microscopy

- 10-100k Images

Image via Wikimedia Commons

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Q&A

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