

WHO I AM



- Professor of *Industrial plants design and Advanced planning* @Politecnico di Milano
- Senior director at Osservatori.net, 100-people research group on Digital Innovation:
 - Internet of Things
 - Industry 4.0
 - Artificial Intelligence
- Co-founder of IqConsulting, academic spin-off, now part of Digital360 (listed)

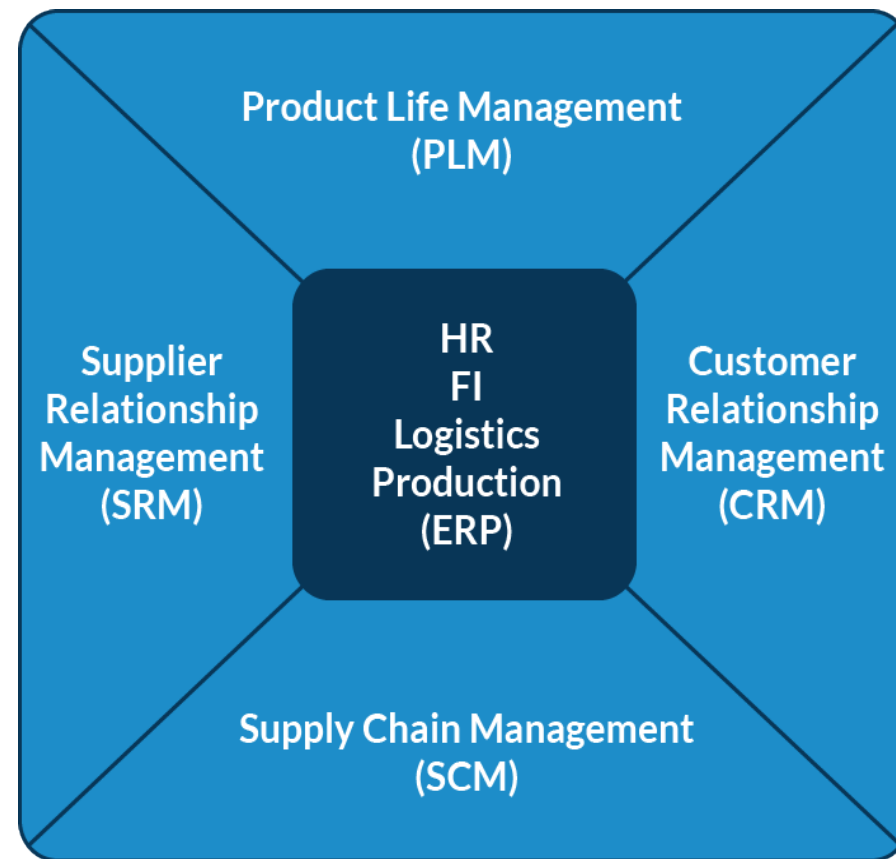
“

“An information system is the Information and Communication Technology (ICT) that an organization uses, and also the way in which people interact with this technology in support of business processes.”

Wikipedia,
As of Sept 2021

DIGITALLake

The Usual Suspects

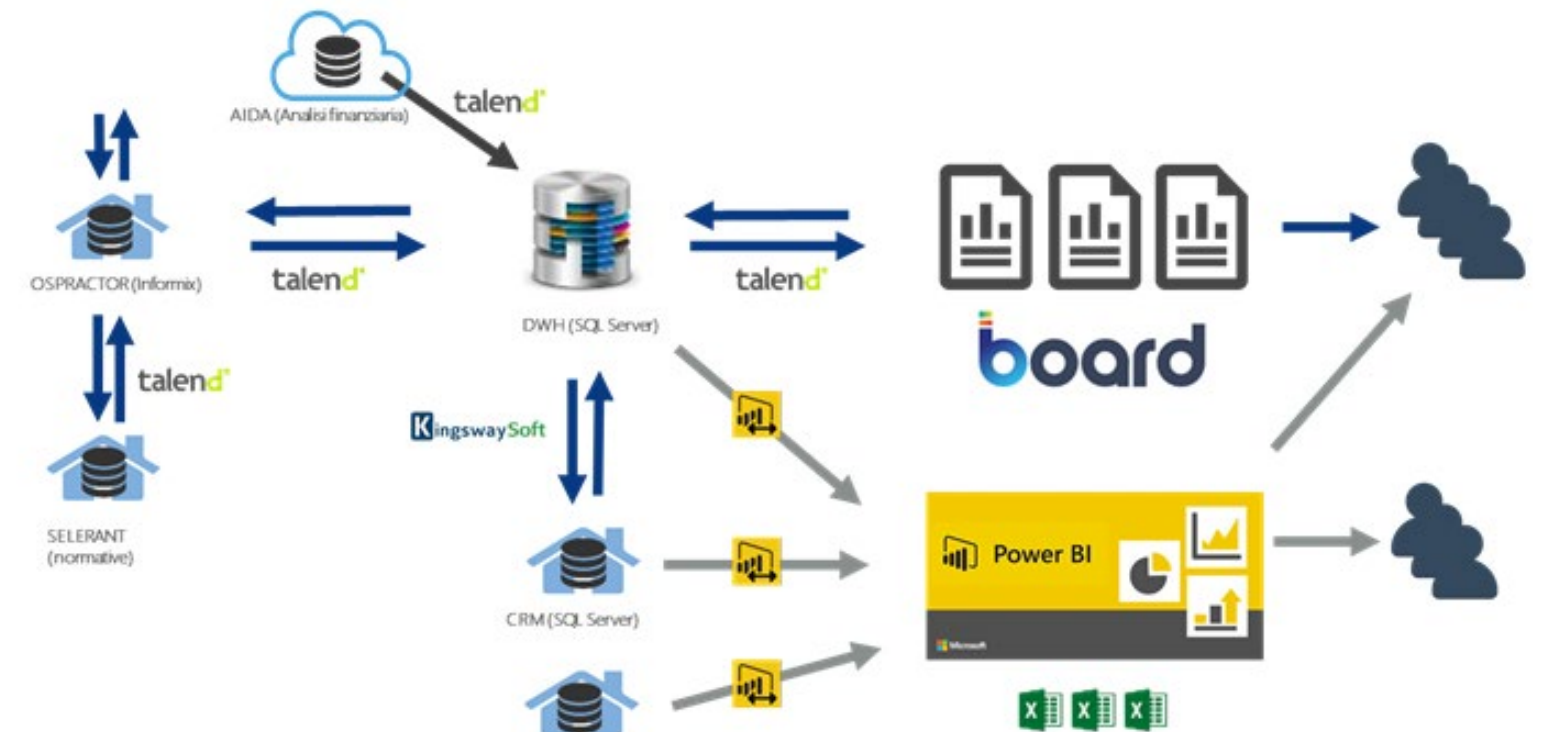
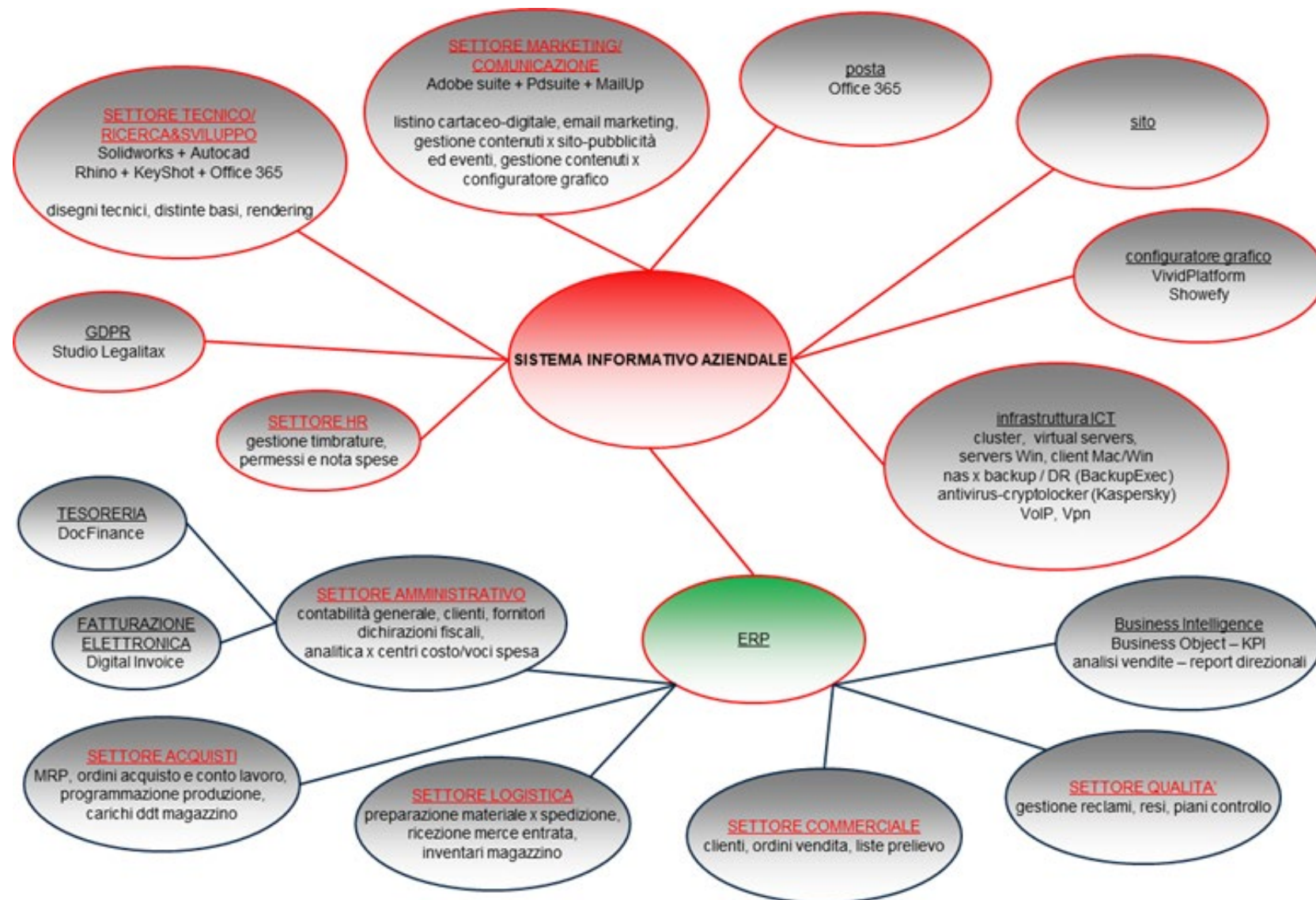


Source: SAP Business Suite, year ≈2000s



Best of breed

Outcomes



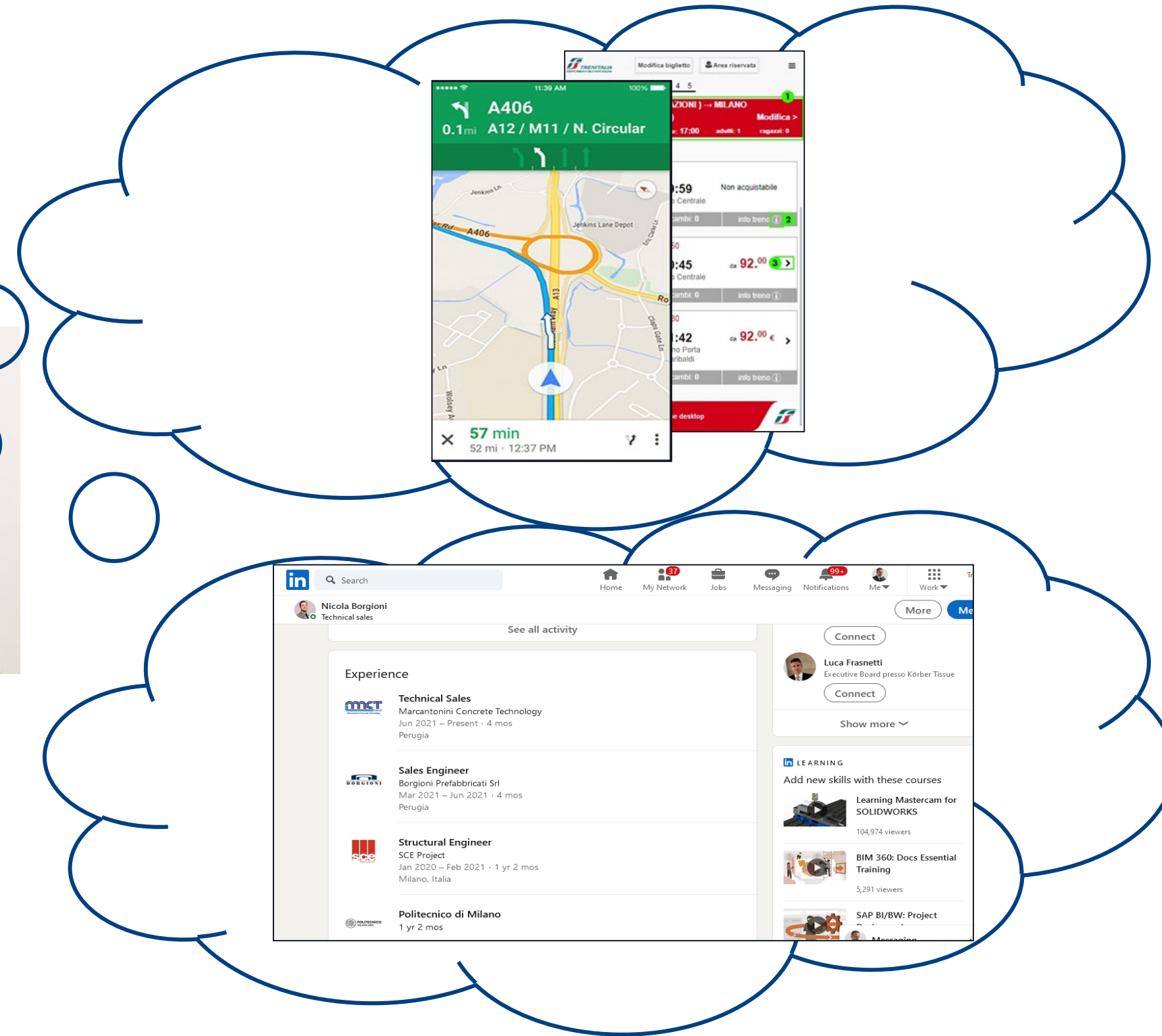
Business Challenges



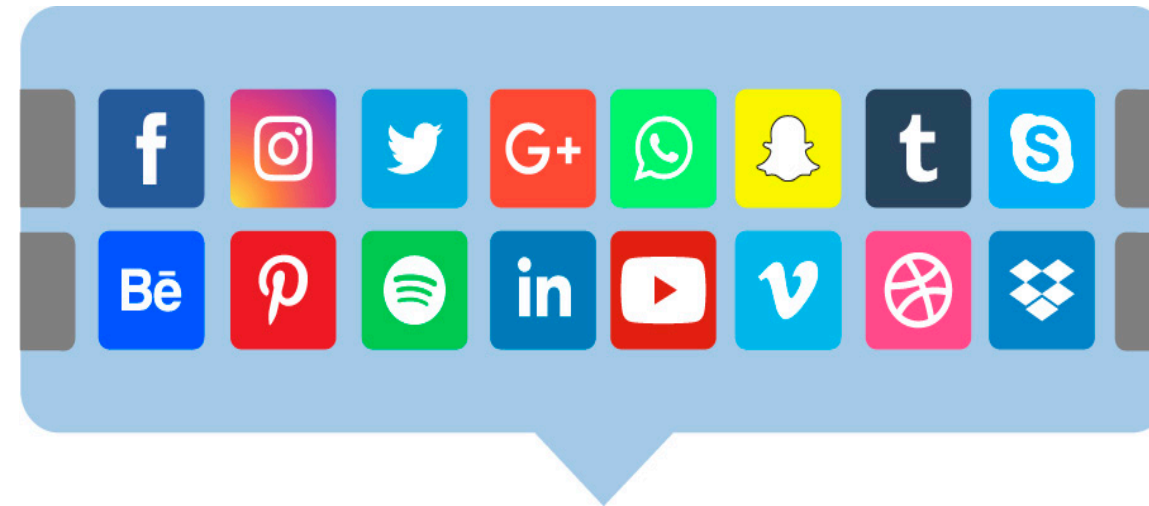
Technology Challenges



Organizational Challenges



Inspiration



Contacts, SMS, File System

10+ Sensor

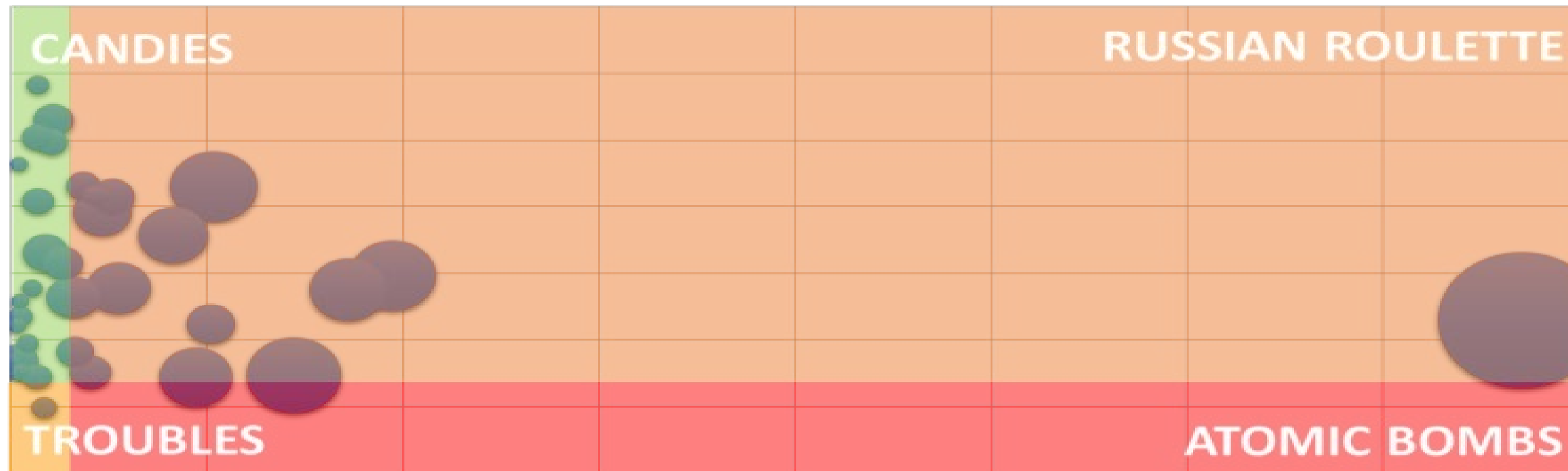
Google Voice, Dropbox..

DIGITAL Lake

Suppliers Risk Management

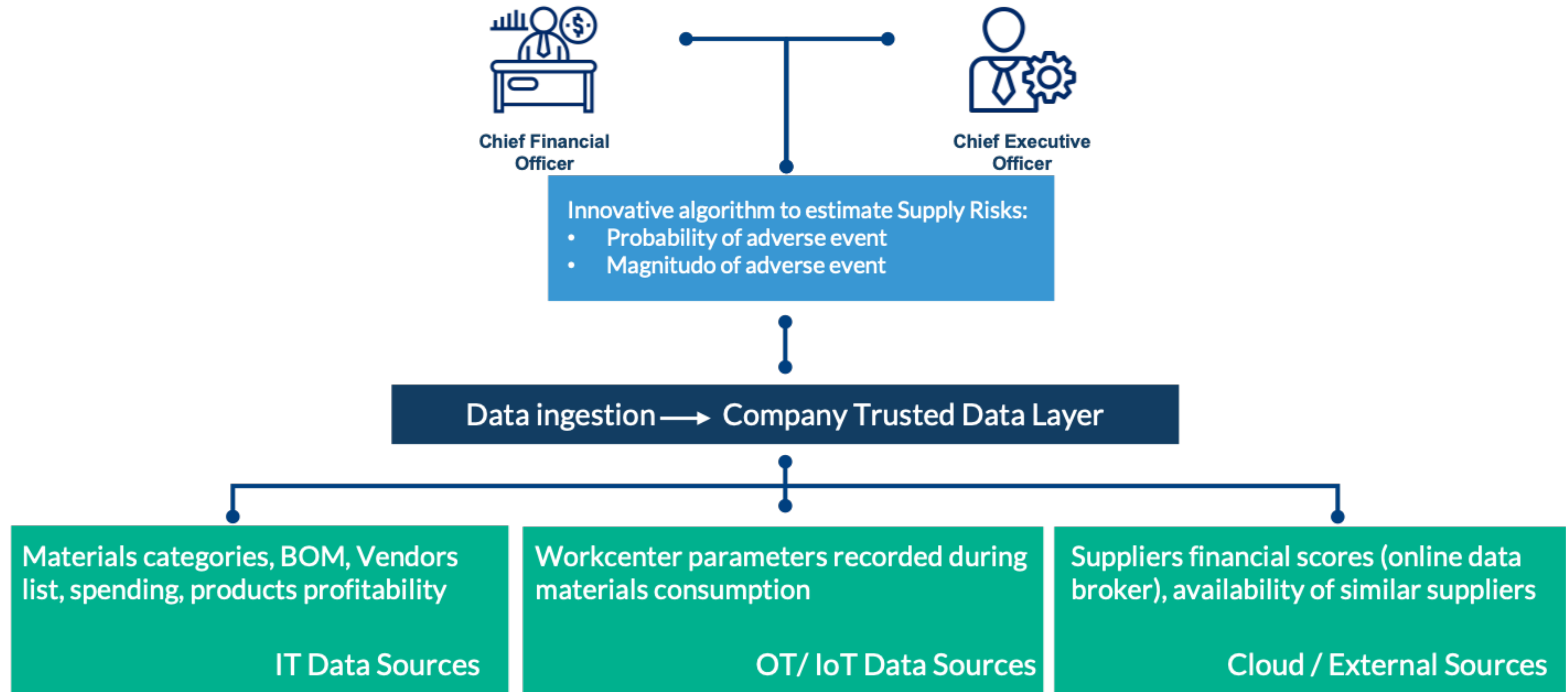


Probability of disruption

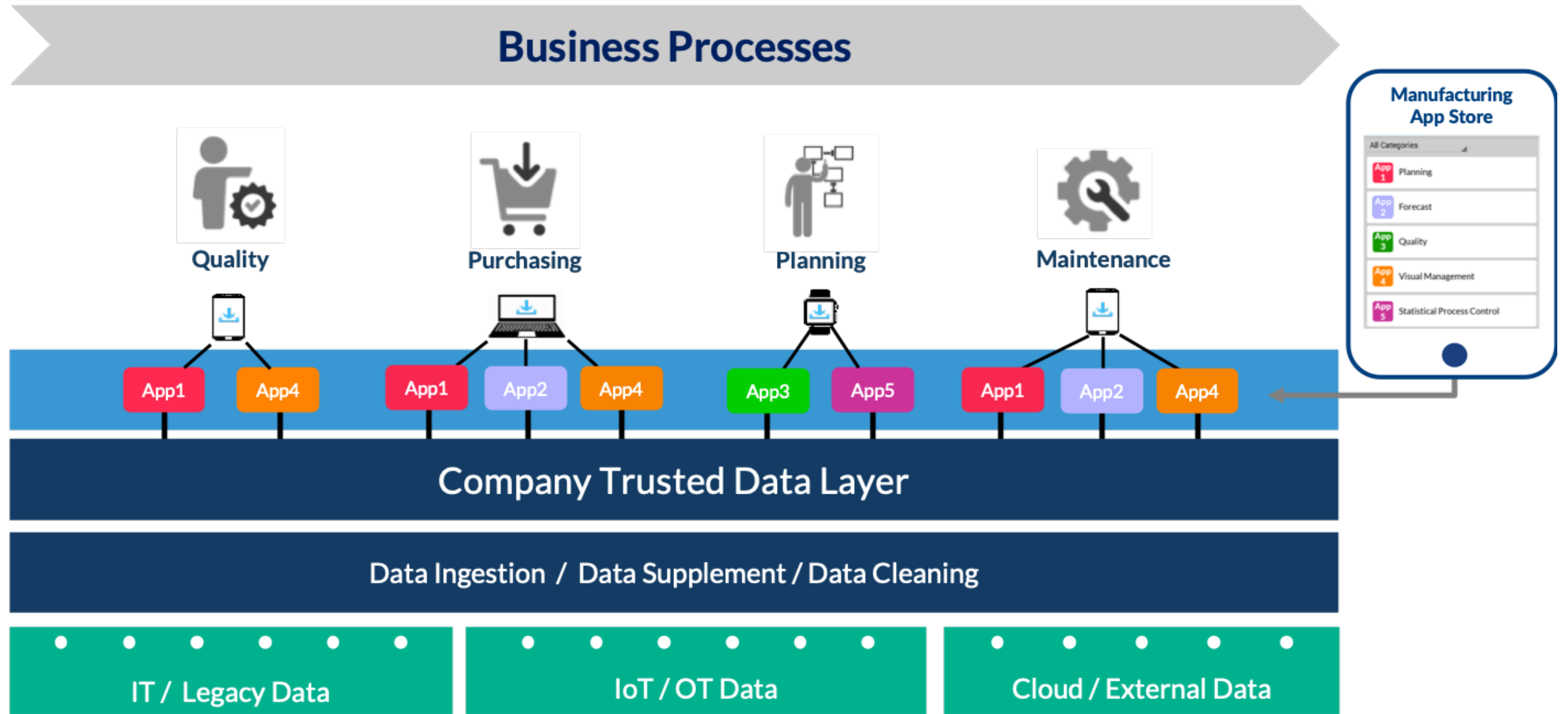


Cost of disruption

Inspiration



Vision of the Future



Vision of the Future

DIGITAL Lake

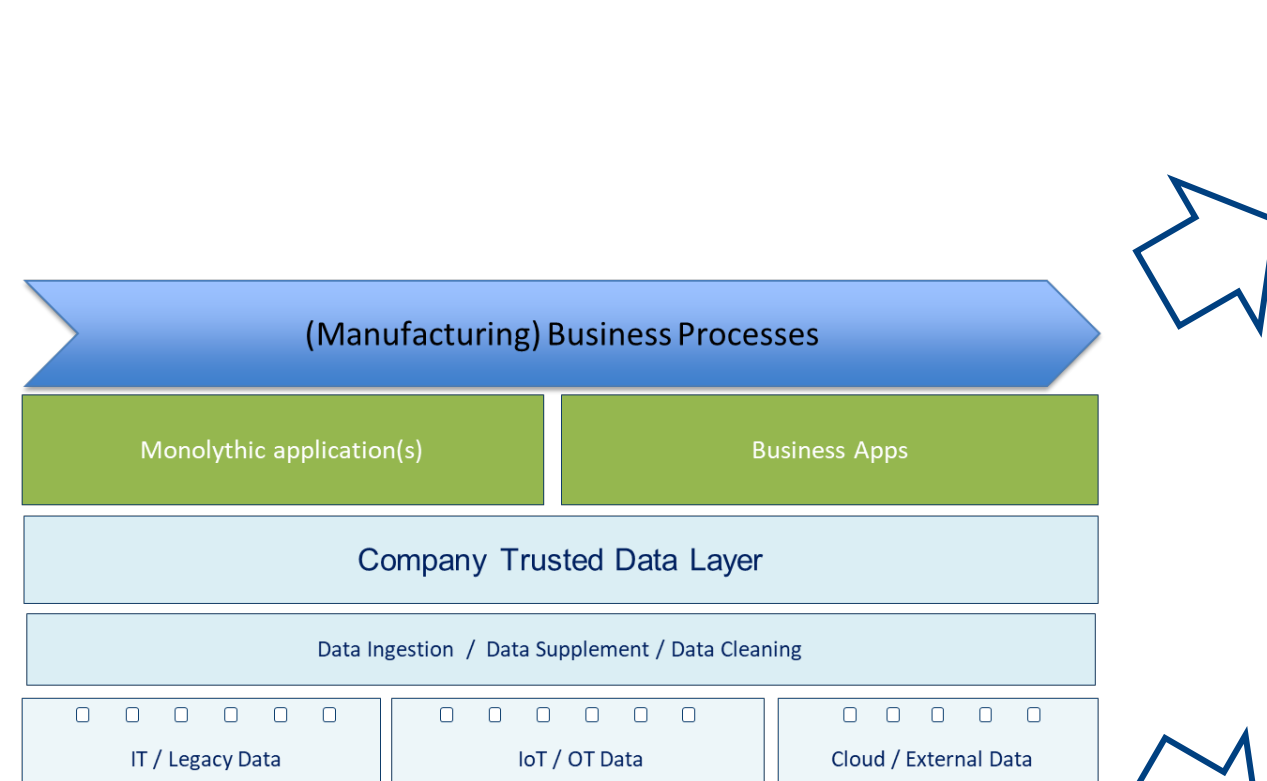
digitallake.it



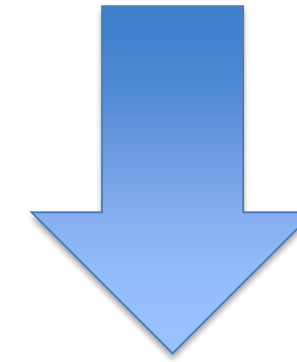
Trusted Data Layer: which challenges in SMEs?

- Implementation approach
- Ownership costs

Trusted Data Layer: Implementation Approach

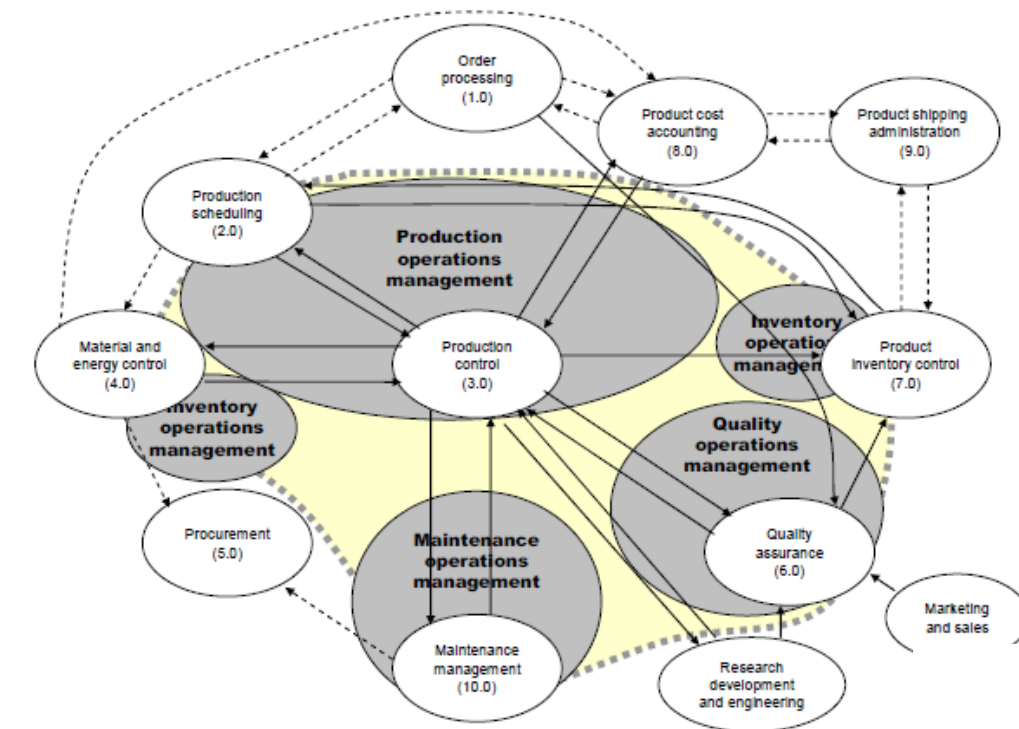


Problem Driven



"Focus on decisions, engineer the data"

Common Data Model



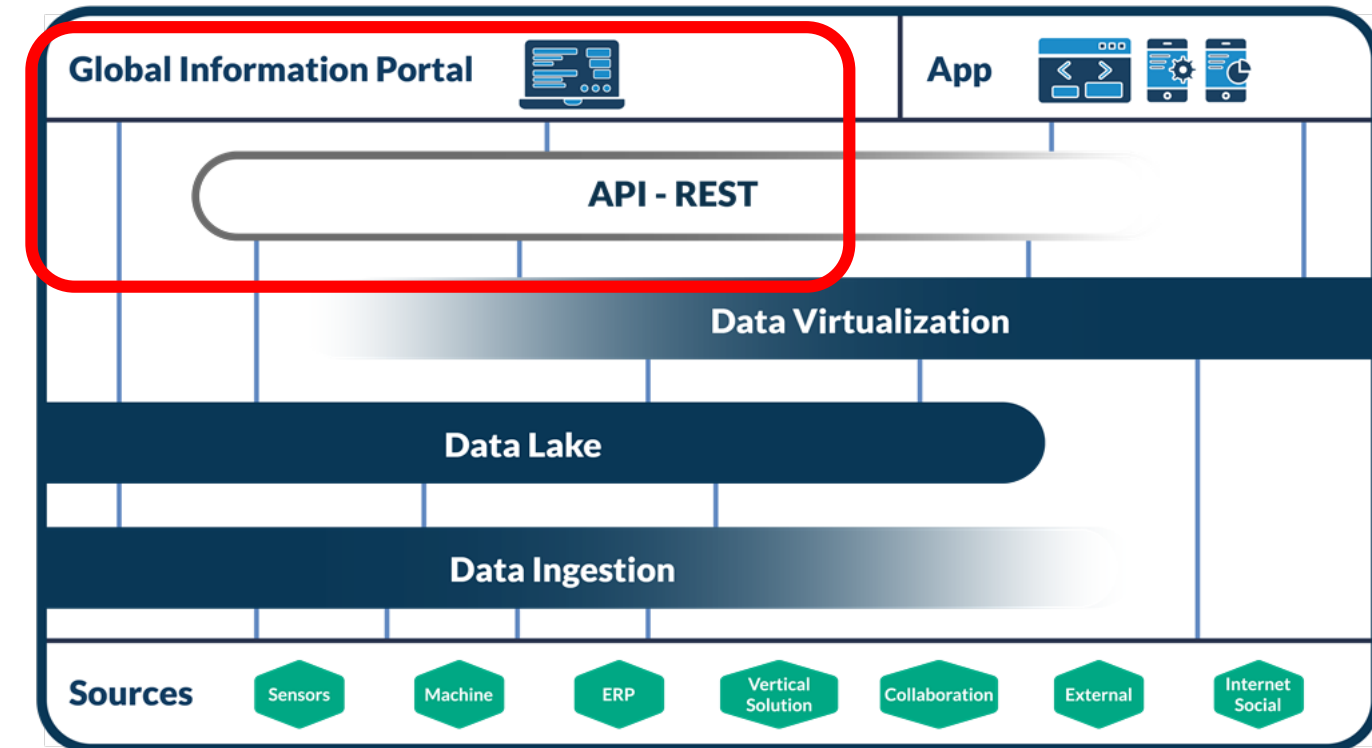
IEC 988/07

Ownership Costs: the options



VS

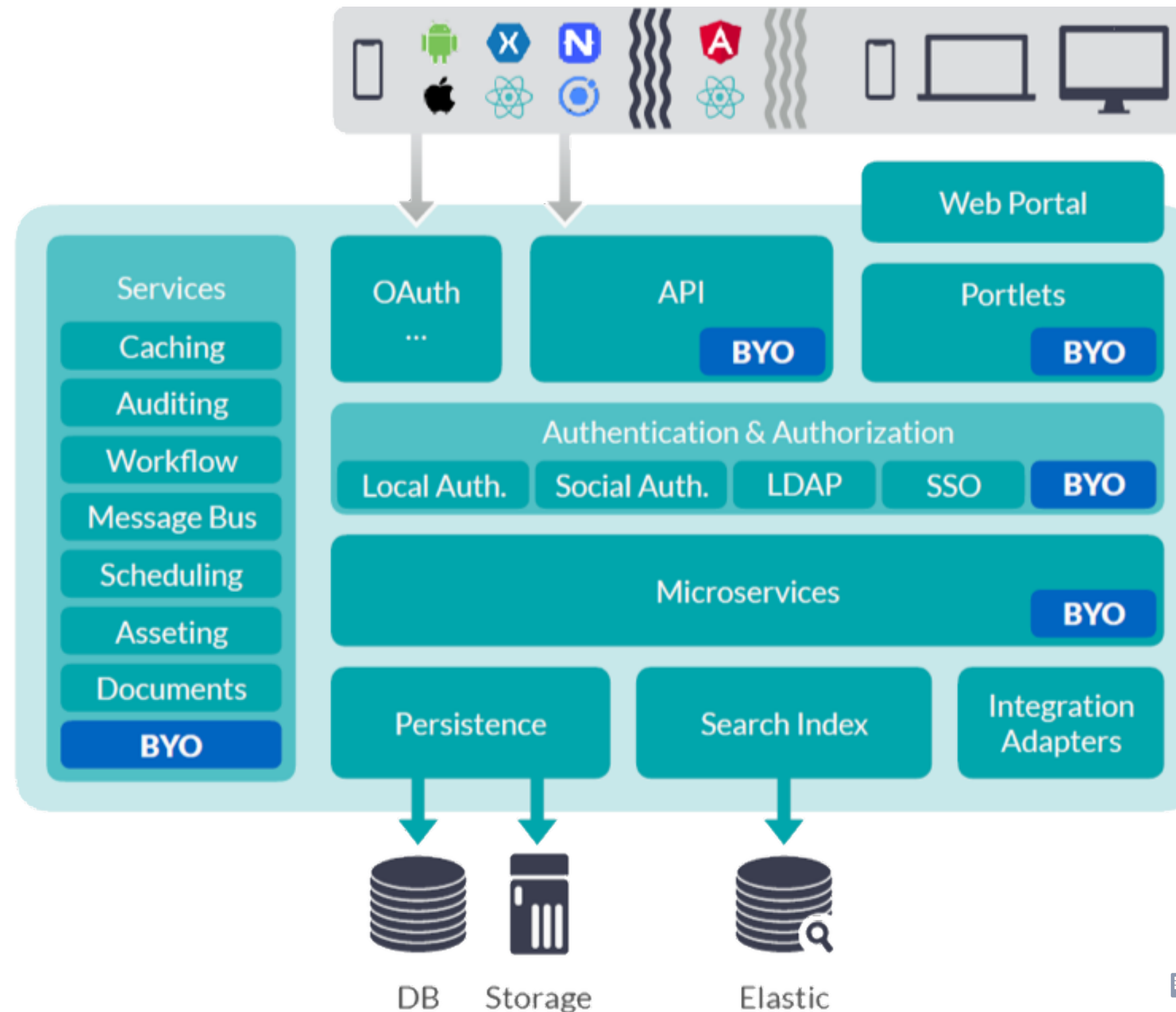
Open Source Platform



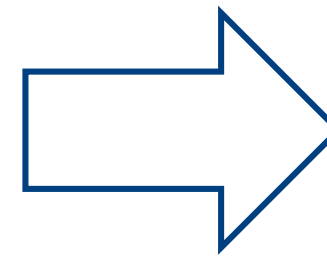
Enabling Technologies: Liferay

Liferay

● Digital Experience Platform



Change the Way People Work



Information System front-end result

Tapí



Target

Prospect Relationship
Management

Workflow and Quality
Standardization

Optimization of Task
Taking Charge



The Solution

Trusted Data Layer Creation

Different Subsystem
Integration (NAV, CRM, etc.)

Creation of Process Workflows
and collaboration rooms

KPI Dashboard



Benefit

Time2market reduction

Standardization of
Collaboration Processes

Increased Company
Know-how

Remote plants management
(Mexico)

Process Definition

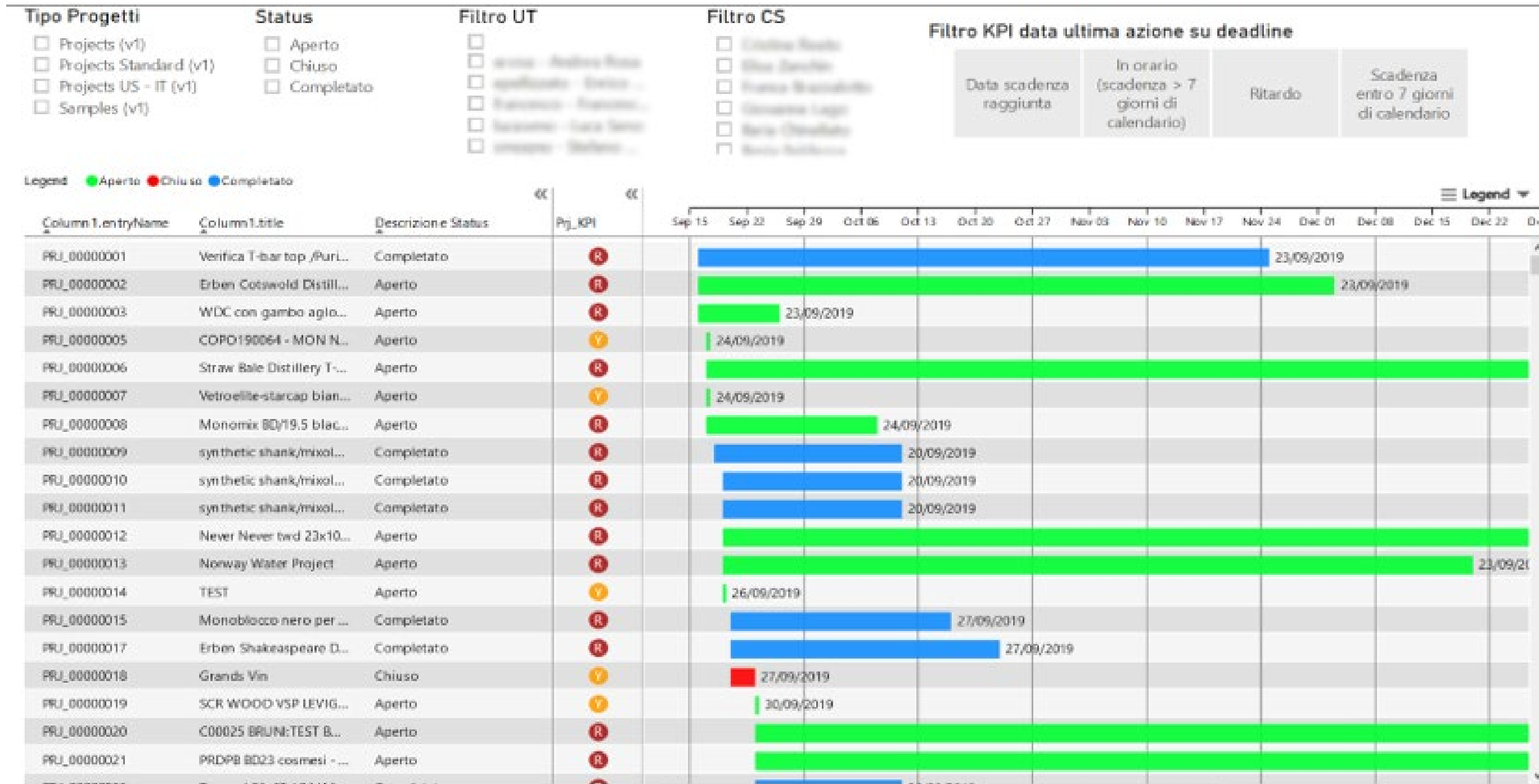
The image illustrates the integration of process definition with a software application. On the left, a BPMN flowchart details the project approval process, starting from 'Project Information' and moving through 'First Proposal or Important Change', 'Technical Department Action', 'Customer Feedback', 'Submit PROVISIONAL Customer', 'Release of the PROVISIONAL Technical Drawing', 'Bottle Test Check', and 'Customer Integration'. The central software interface displays a list of projects with their descriptions, dates, and progress bars. The right side shows a zoomed-in view of the BPMN flowchart, highlighting the 'Proposta Tecnica' and 'Verifica con il cliente' tasks.

Tipi BPM Entry	Stato	Ordina per: Data Ultim...
TJH560	Attivo	
<p>Descrizione Per l'evento Milano da bere di aprile 2020 è richiesto una chiusura in resina epossidica con elementi in trasparenza. Diametro 21,3mm; Altezza 7mm; Formato CUP Proporre sagoma che ricordi una corona</p> <p>Descrizione estesa: Per l'evento Milano da bere di aprile 2020 è richiesto una chiusura in resina epossidica con elementi in trasparenza. Diametro 21,3mm; Altezza 7mm; Formato CUP Proporre sagoma che ricordi una corona</p> <p>Data CEO: 14/08/19 Attività R&D: true Valutazione Logistica: true Margine atteso: 28.0 Produzione Mockup: false Data cliente: 12/09/19</p> <p>Business plan: Final Cliente: Platinum</p> <p>Tempo Residuo</p> <p>Valutazione Tecnica Produzione Campioni Consulenza</p>		
NR034	Attivo	
<p>Descrizione Tappo bimateriale metallo+radica - Wine Show Shangai 2019 Diametro 42mm; Altezza 22mm; Stelo sintetico Altezza: 37mm Insetto radica orientale Serigrafia laterale su banda metallica con testo Divina Commedia</p> <p>Descrizione estesa: n.a. Data CEO: 16/06/19 Attività R&D: true Valutazione Logistica: true Margine atteso: 34.0 Produzione Mockup: true</p> <p>Data cliente: 30/06/19 Business plan: Rough Cliente: Gold</p> <p>Tempo Residuo</p> <p>Valutazione Tecnica Produzione Campioni Consulenza</p>		

Task Progress

The screenshot displays a Liferay portal interface for a Request for Quotation (RFQ) task. The top navigation bar shows the user's name, Tania Linsley, and various icons for search, notifications, and user management. The left sidebar contains navigation options such as HOME, CALENDARIO, DOCUMENTI, SPAZI, ATTIVITÀ, and others. The main content area features a success message: "La tua richiesta è stata completata con successo." Below this, the task ID "NR034" is shown with the status "Stato: Attivo". The task description is: "Tappo bimateriale metallo+radica - Wine Show Shangai 2019 Diametro 42mm; Altezza 22mm; Stelo sintetico Altezza: 37mm Inserto radica orientale Serigrafia laterale su banda metallica con testo Divina Commedia". The task progress bar is divided into three sections: "COMPLETATI PER DATA", "COMPLETATI PER FASE", and "IN CORSO". The "IN CORSO" section is currently active, showing a task named "Produzione (26 - 55)" with a progress bar and a "Task" label. The task was created on 31/05/2019 and is due on 07/06/2019. The right-hand sidebar provides details for the RFQ, including the client "FINEMIRO LEASING S.P.A. (C000518)", the description "n.a.", and various dates and statuses. The footer of the page includes the text "FORNITO DA SMC" and "Impostazioni | Utenti Online (0)".

Monitoring



Digital Lake (www.digitallake.it)

- 100% Open Source
 - Pricing
 - No vendor lock-in
 - Best technologies available, as soon as they are available
- Own your data:
 - Common data model, standard de iure / de facto
 - Full documentation, full API access
 - No filters nor friction in sharing data with other Systems / Applications
 - Put the Information Assets back in the Company's hands



Thank you

www.digitallake.it

Giovanni Miragliotta - [linkedin.com/in/giovanni-miragliotta-4617a0](https://www.linkedin.com/in/giovanni-miragliotta-4617a0)



DIGITALLake

