



SAP
Innovation
Awards 2019



SAP Innovation Awards 2019 Entry Pitch Deck

Data Democratization
Grupo Lala

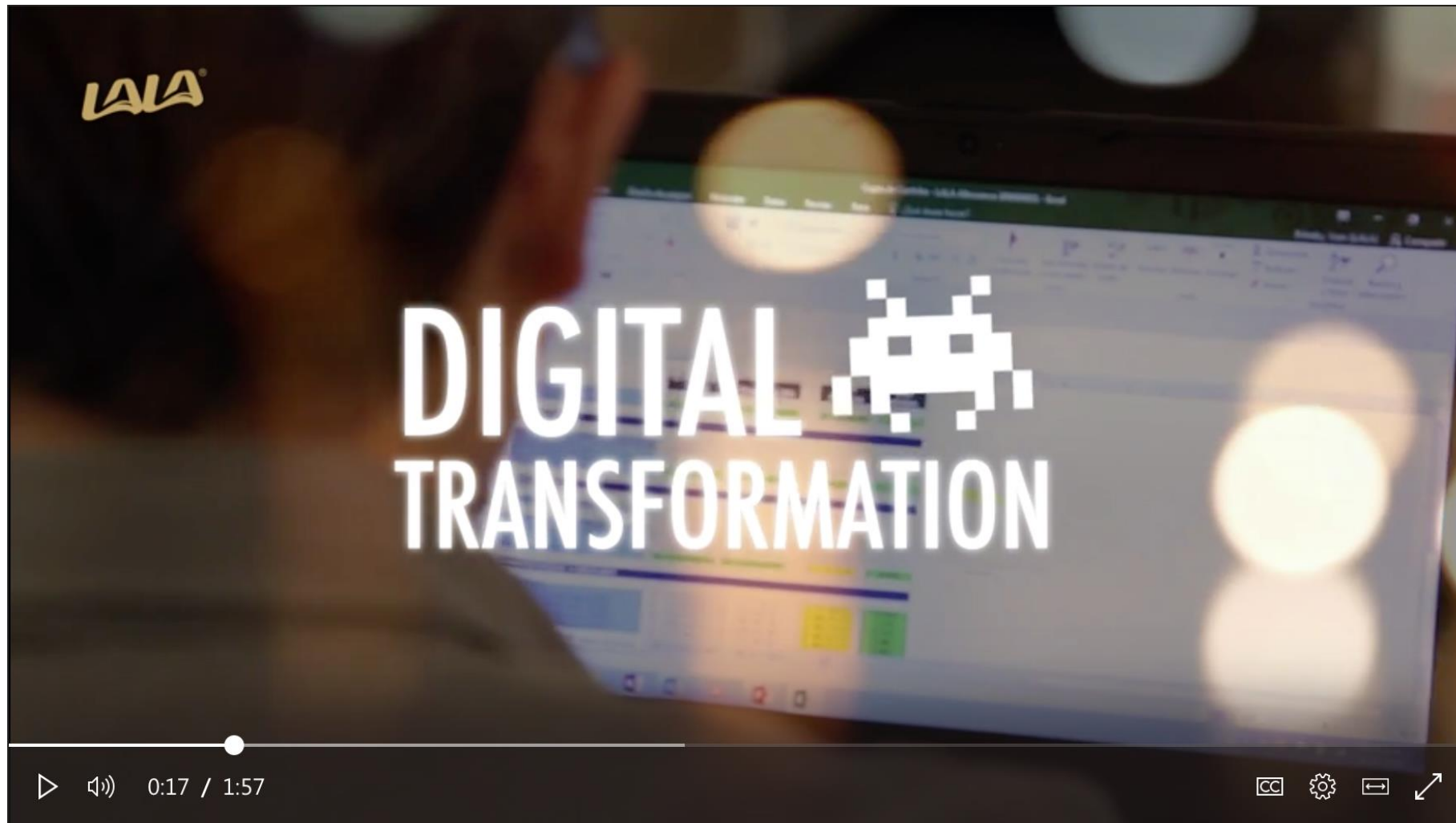
THE BEST RUN



Intro Video



[Video LALA](#)



Data Democratization

Grupo Lala



"Quote"

"Democratization of Data in the right hands has empowered every employee in Lala to make decisions, and act as an owner, not a collaborator. This empowerment is measurable in our results. This is truly BI 4.0 with less friction for IT and more self-service and analysis for collaborators."

Marvin Nahmias

Technological Innovation
Director

Challenge

Generate a consolidated information model based on data driven intelligence across different on-premise and cloud data sources based on Big Data technology that allows high availability, simplified access for functional users, standard connectivity, scalability, secure and built trust with a single source, empowering the functional business users to develop new analytics and predictive tools for the generation of new strategies in the company.

Solution

Using SAP Cloud Platform (SCP) Services, SAP Hana for data modeling, Smart Data Integration (SDI) and SAP PI for the connectivity, we built a solution architecture, concentrating the master data and transactional information of our main SAP information systems; ECC, BW, BPC, FS-PER, and our LALA DSD automatically, making them available in one single data model for exploitation through specialized tools.

Outcome

Availability of information through data objects to be consumed directly by functional specialists, without relying on an IT area, in the design and construction of their own analytical reports and indicators with the security of having a single source of information, without manipulation, standardized, updated and reliable

- Strategic Reports for BPC on SAC
- HANA Data Lakes for: Expenses, Sales, Logistics, Material

573 tables daily basis replication
4.5 billions row of data
* Time reduction up to 92% on daily data loads

Enabling 3 strategic models in the supply chain segment. SAC & PowerBI as reporting tools.
Until 5k user enabled to see reports



Partner Information

SAP Technical Consultant



SAP Max Attention as an SAP Partner, supported us in the construction and technical configuration of the components involved, given the complexity of design that involved the integration of different systems, combination of On-Premise & cloud systems and new integration technologies such as CC SDI, BD HANA & SCP. In the same way we have consultancy services for specific models of logistics and layers of presentation in the reporting tools.



Business Challenge & Objectives

Build the foundation for the Intelligent Enterprise, which can offer business users the data objects that enable them for the analysis in an agile way, aligned to the changing needs of the business. Additionally, we avoid a scheme in which we have different data sources, isolated rules, ambiguous models, among others. In addition, the data opportunity is better, daily load process takes less time to collect information that could become a fault in compliance requirements and loss of the right time for decision making.

Data integration: Establish the integration schemes for initial loads and maintenance of the different information models required in the company, automating the updating of information and the reduction of synchronization times.

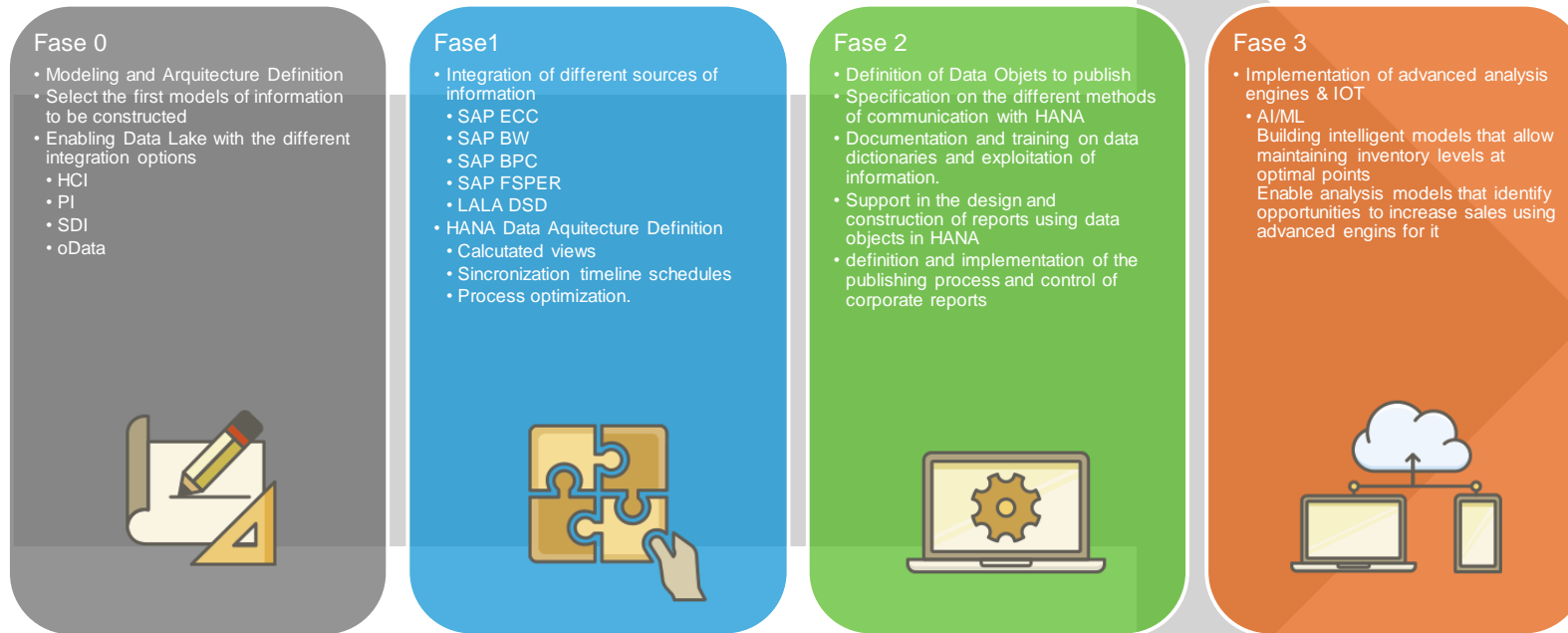
Standardization of business data objects: Eliminate silos of redundant and redundant data, providing standardized information, with unique business rules, data query optimized and presented so that it can be consumed in the agile preparation of indicators and reports

Empowerment of key users: Maximize the capabilities of the functional user, in a self-service scheme, minimizing the IT dependency in the consumption and preparation of indicators, obtaining a reduction of development times of any information analysis and also, avoiding the extraction and search of the necessary information for this objective.



Project / Use Case Details

The data democratization project is mainly defined in 4 phases, ranging from the conception of data models, synchronization, publication to the governance of access to information and extend the functionality with advanced analytics, IOT & IA/ML. In each of the phases, the different figures both technical and functional actively participating in each defined.



Data
Democratization



Benefits and Outcomes

Business / Social

- The main benefit is the agility of business to respond to new needs, being responsive to the client and the market, based on the democratization of data, which allows the user to analyze large volumes of information quickly and easily.
- Standardizing business rules based on a single source of information, eliminating errors and different interpretation on manual processes for collecting data between different systems.
- Optimization of time for data collection.
- Possibility to exchange information between different modules and data objects without the need to duplicate information.
- Agility in obtaining reports and analysis.
- Greater control and secure access to information.
- Reduce Dependency from IT to develop KPI, dashboards & reports by business users

IT

- Implementation of SAP HANA as the main platform for Big Data and SAP Cloud Connectors.
- Improvement in the processes of extraction, loading and transformation of data from different sources.
- Reduction in storage volumes when using columnar HANA's NoSQL technology and elimination of duplicity between the different modules.
- Increased speed of queries in reports and analysis.
- Better monitoring and control synchronization loads.
- Agnostic integration between different technologies and BD.
- Control and governance in the access and architecture process, without removing flexibility in the democratization of data.
- Data literacy through dictionaries and documentation of business rules towards functional users.

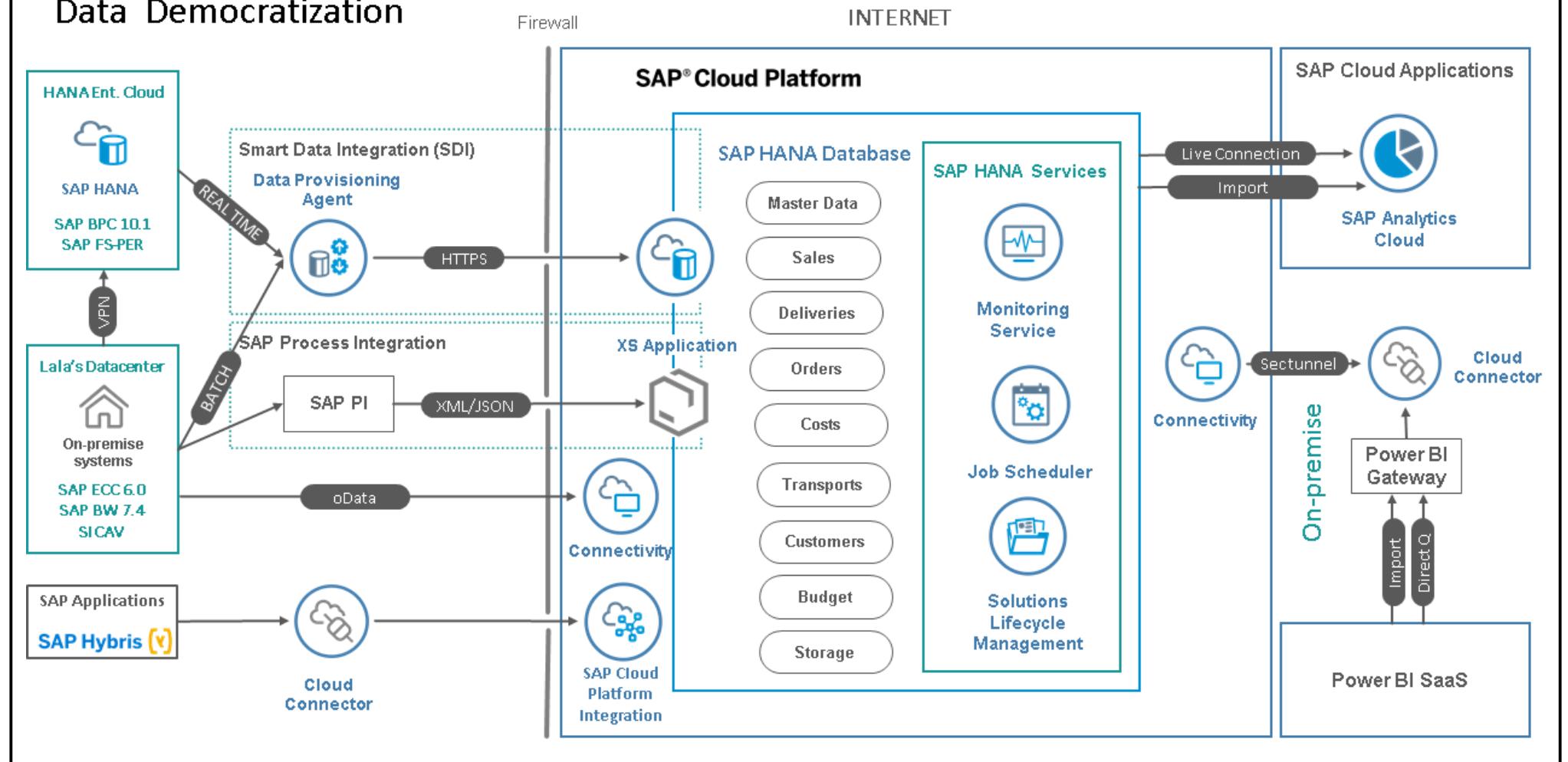
Human Empowerment

- Finally, the functional end user has the power to build their own reports and indicators, without the need for the IT department to be responsible for developing and implementing changes.
- The effort to find, organize, retrieve and share data to produce a report, is removed by using an object of published data.
- There are no secret formulas or business rules, because information is the same for everyone.
- Governance and the control on publish of reports, is now managed by the functional area responsible for the process, from a single point of administration and as owners of the module.
- The boundaries between the IT data architecture and the design and development of reports, allow the ownership for the process that makes to be appropriated that streamlines the definition and delivery of results.
- The scope to share reports and dashboards is maximized, allowing in a timely manner, a better analysis and decision-making.



Architecture

Lala's Data Lake Architecture Data Democratization





Deployment

Date of Deployment or POC: On February 1, 2018

Number of live users: 75 Users with Design and Development roles and +6000 with access to those published reports

SAP Technologies Used:

SAP HANA v 1.00.122.12.1502962396 3 TB space in SCP	Live
SDI Adapters: <ul style="list-style-type: none">• Hana Adapter• Oracle ECC Adapter• OracleLogReader Adapter• ABAP Adapter	Live
SAP ECC 6.0 & SAP PI 7.4 with 141 Oracle DB instances running on Distribution Centers	Live
SAP BPC 10.1 running on HANA 2.00.022.00.1511184640	Live
SAP FS-PER	Live

Server Processor: (HANA Cloud service in SCP)

Linux Distribution: (HANA Cloud service in SCP)



Emerging Technologies and Use Cases

The following Emerging Technologies and use-cases are part of the project and describe the contribution

	Technology or Use Case	Yes/No	Contribution to Project
1.	Machine Learning / Artificial Intelligence	TBD	
2.	IoT	TBD	
3.	3D printing	NO	
4.	Blockchain	NO	
5.	API Economy / Integrate the Intelligent Enterprise	Yes	
6.	Cloud Native / Event Based Architectures	Yes	
7.	Extending the digital core with SAP CP / ABAP in SAP CP	Yes	
8.	SAP Leonardo Application (extending SAP application, using Industry Innovation Kits or result of Design Thinking workshop)	NO	