

Le applicazioni native SAP HANA

SAP Forum 2014
Milano, 30 Ottobre



Le applicazioni native SAP HANA: convergenza tra database, applicazioni, analytics e mobility

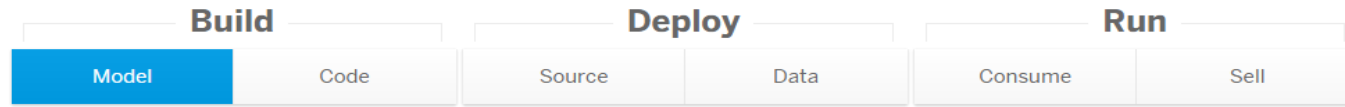
Perché costruire o migrare un'applicazione esistente su SAP HANA sfruttando le sue capacità di calcolo transazionale analitico e predittivo, rendendola disponibile in mobilità e facendola evolvere al passo delle innovazioni della piattaforma tecnologica SAP





1. Cosa sono le Native application SAP HANA

SAP HANA Native applications



Tables

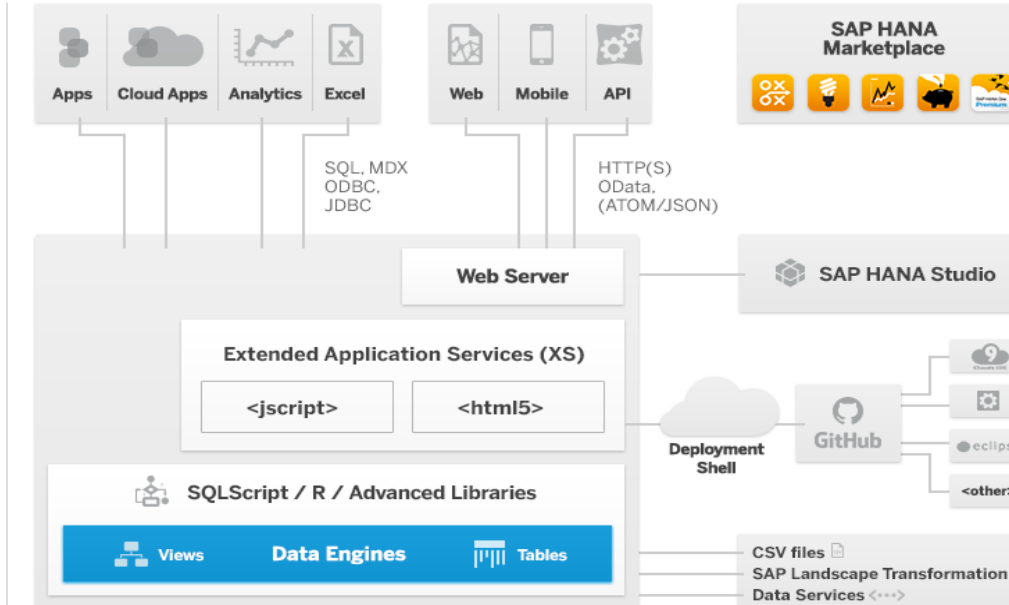
Define in-memory tables like any other database. Tables can be column or row based.

Text Search

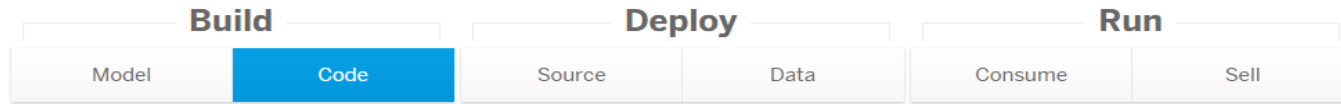
Enable full text search and analysis on columns, supporting various digital formats and languages.

Views

Create views based on dynamic results from one or more database tables.



SAP HANA Native applications



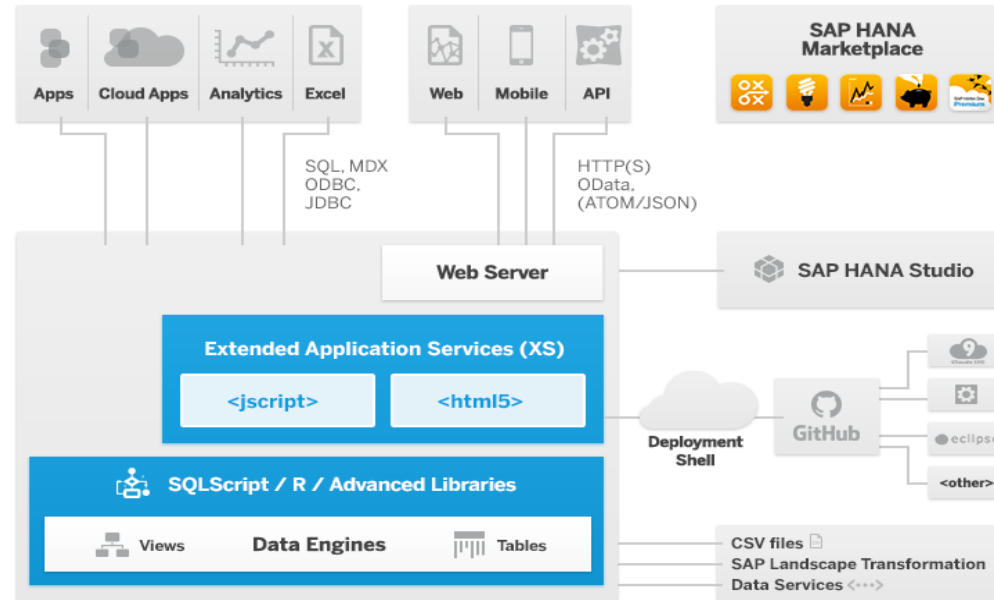
Procedures

Create procedures for data-intensive application logic directly in the database for fast in-memory execution.

- **SQLScript**: SAP HANA scripting language for procedures
- **R**: open-source for statistical computing
- Use predefined **libraries** including Business Function Library and **Predictive Analysis Library**.

Extended Application Services (XS)

Develop **extended application services** and expose OData support using server side JS with full access to SQL and SQLScript.



SAP HANA Native applications

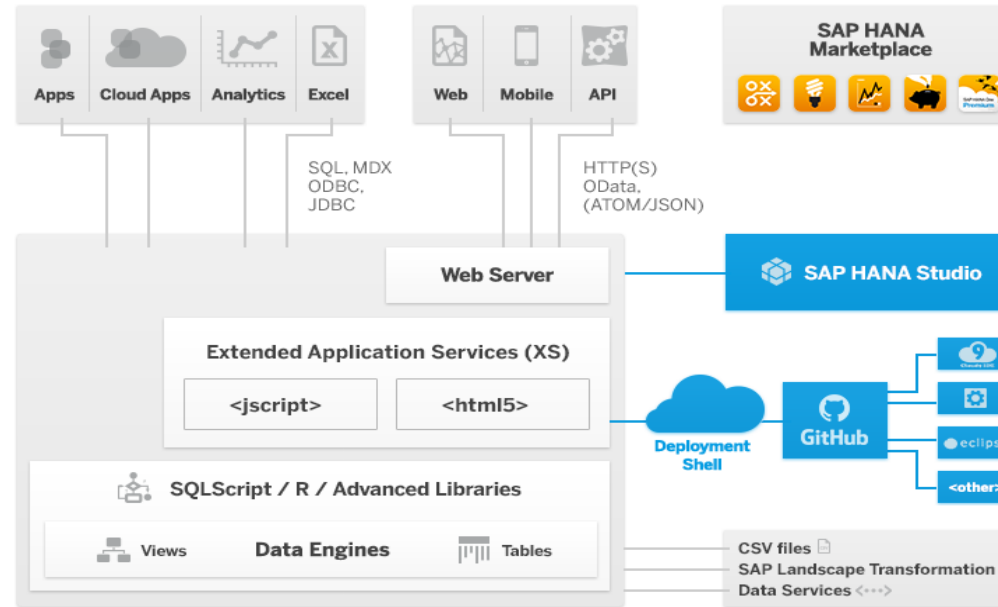


SAP HANA Studio

Eclipse based IDE supporting administration and collaborative development, debugging and deployment of applications.

Deployment Shell

Use [SAP HANA deployment shell](#) as an alternative way to deploy SAP HANA applications using GitHub or command-line, and any development tool.



SAP HANA Native applications

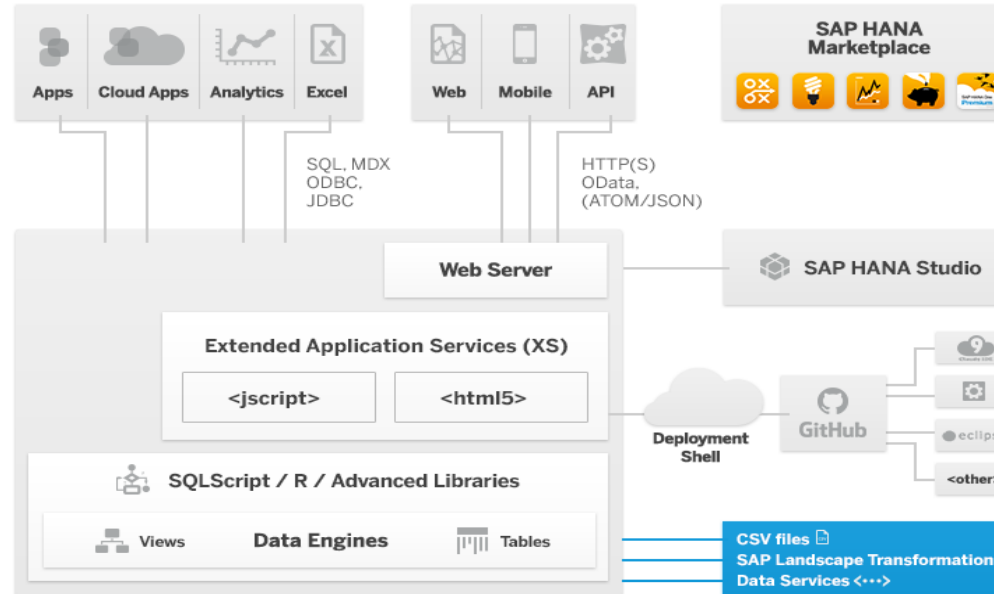


Initial Load

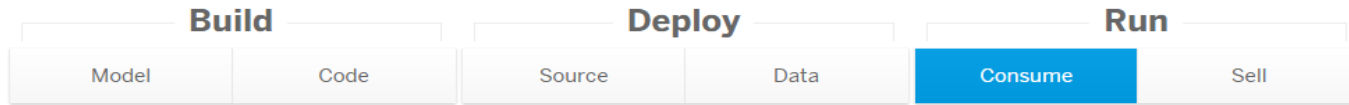
Use CSV files, Data Services or the SAP Landscape Transformation for the initial source data import.

Data Replication

Keep data of selected tables in SAP HANA up-to-date with source system tables by using SAP Landscape Transformation (SLT).



SAP HANA Native applications

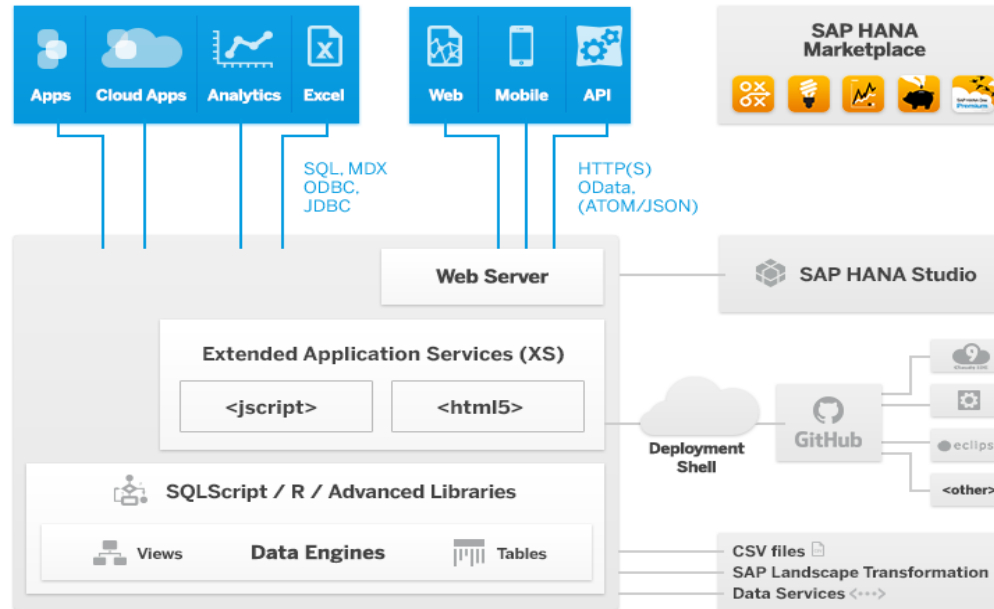


SQL

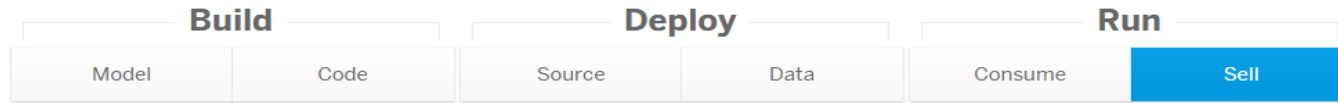
Build apps using SQL (JDBC, ODBC) or use analytical tools like Business Objects, Excel against SAP HANA.

OData/HTML5

Build mobile, web or APIs against SAP HANA using HTML5 or OData (ATOM/JSON) based services.

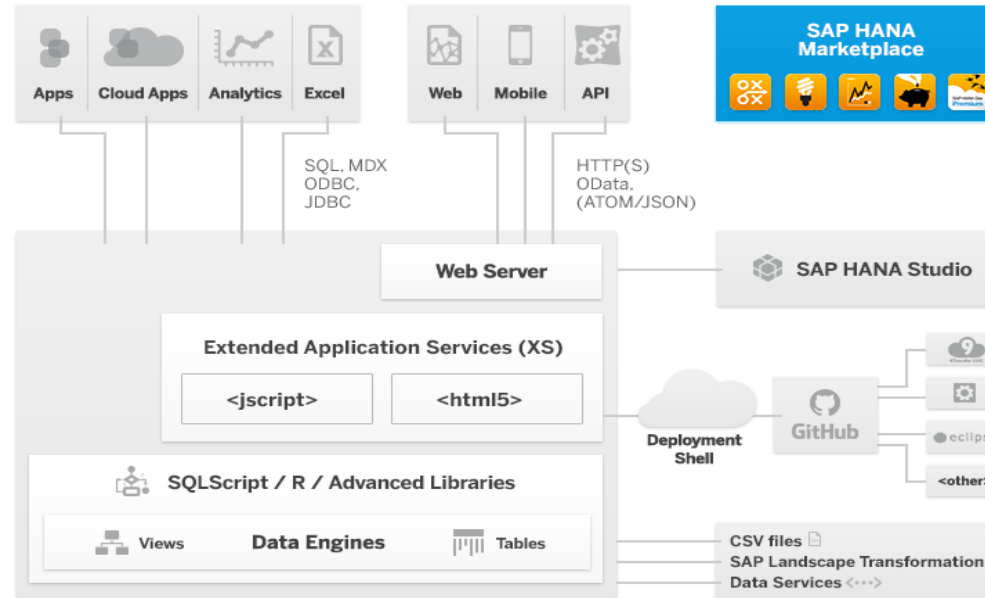


SAP HANA Native applications



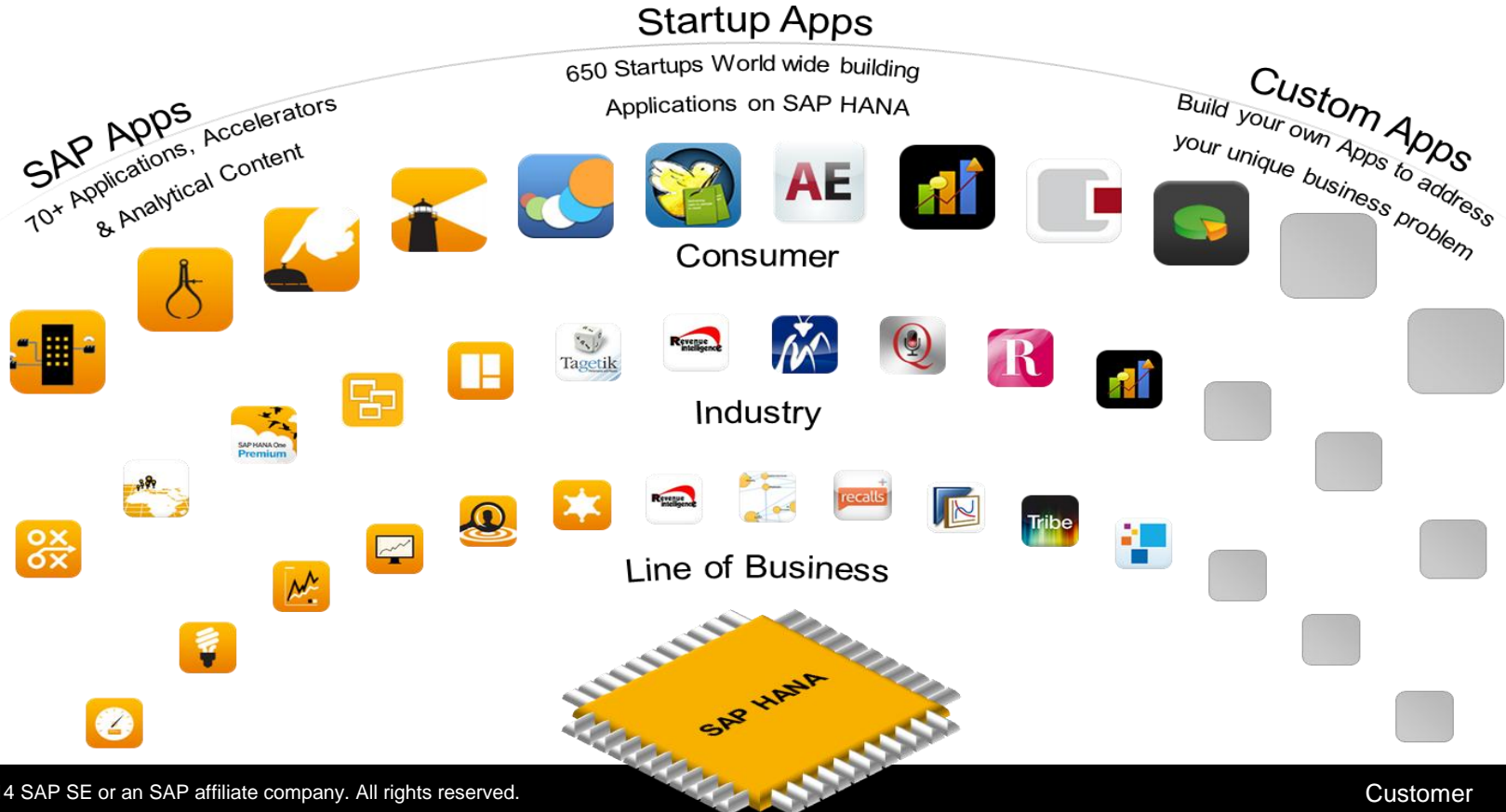
Marketplace

Promote and sell applications through the [SAP HANA Marketplace](#).



SAP HANA

A single platform powering next generation applications





2. Perché SAP investe nelle applicazioni native SAP HANA

Business context



Why SAP HANA Native Applications?

Key capabilities required for next-generation “Smart” applications:



Personalized recommendation with machine learning, predictive and rules



Natural language processing



Process any variety/volume (e.g. unstructured)



Respond within predictable time windows

SAP HANA is a high speed processing platform to enable:

Easier Processing:

- NLP, Predictive, R-Integration.
- Spatial processing, ad-hoc OLAP views.
- Data virtualization.

Easier Ingestion:

- Replication, streaming, ETL.
- Integration, data cleansing.

Easier Consumption:

- HTTP(S), OData, XML/A.
- ODBC, JDBC, ODBO.
- SQL, MDX.

Easier Development:

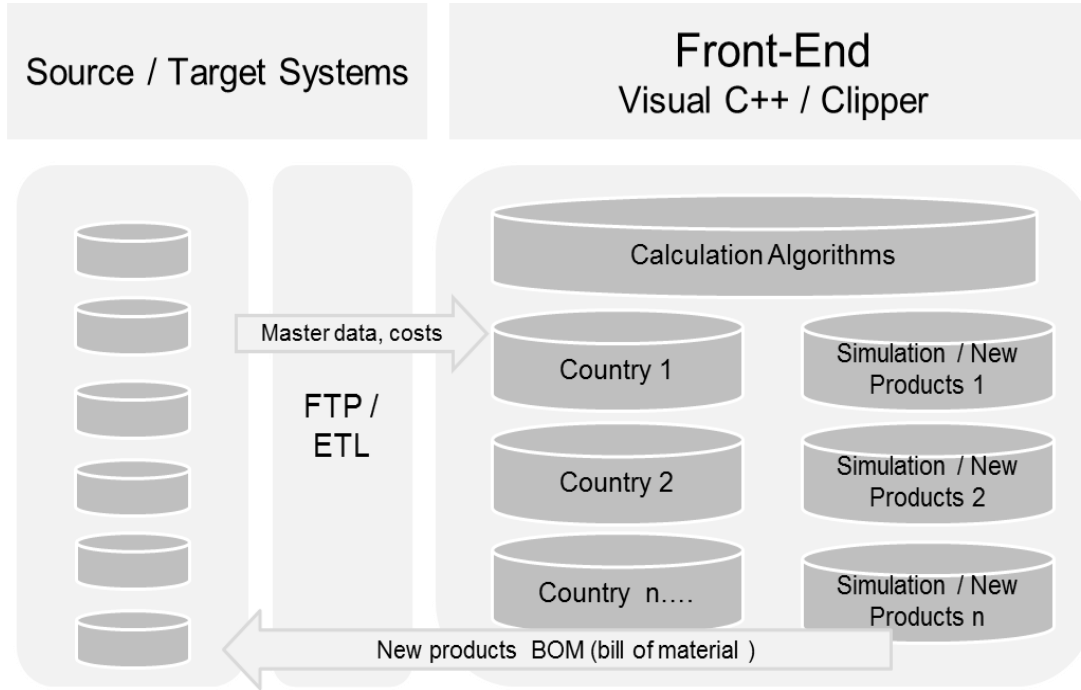
- JavaScript, HTML 5.
- Any programming language.
- App/web services.
- Decision table.



3. Scenari e ambiti di applicabilità delle Native Application

Easy build and migrate applications

Global cables manufacturing leader



Current Pain Points

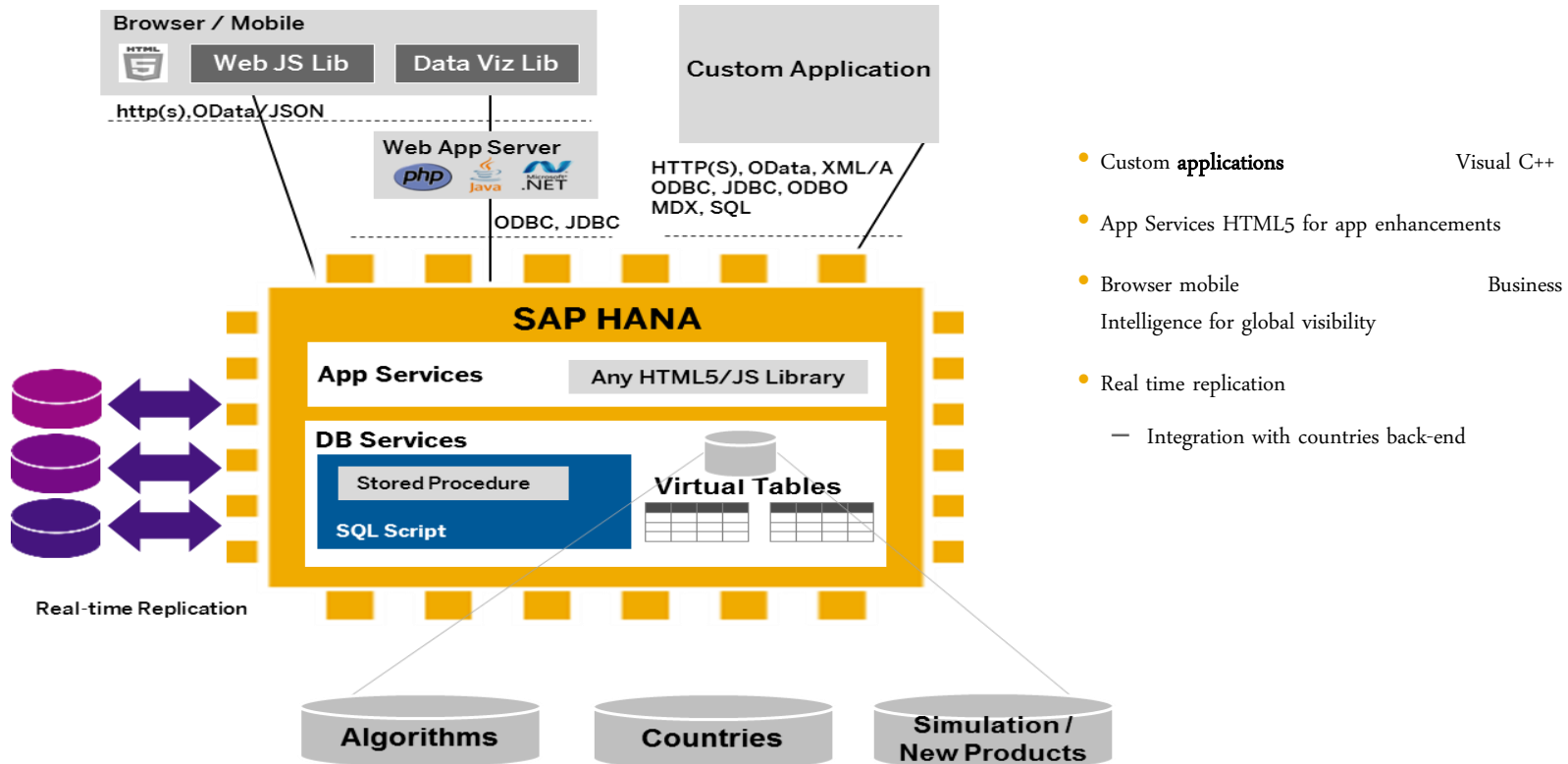
- Lack of Global Visibility
- Very limited Front-end options and usability
- Poor Infrastructure capabilities
- Long and complex batch data transfer
- Lack of skill for technical troubleshooting

Application Features

- Complex Algorithms to **simulate product feasibility** (components and costs)
- Core 20 years old Research & Development application.
- Same DB schema for each country rollout

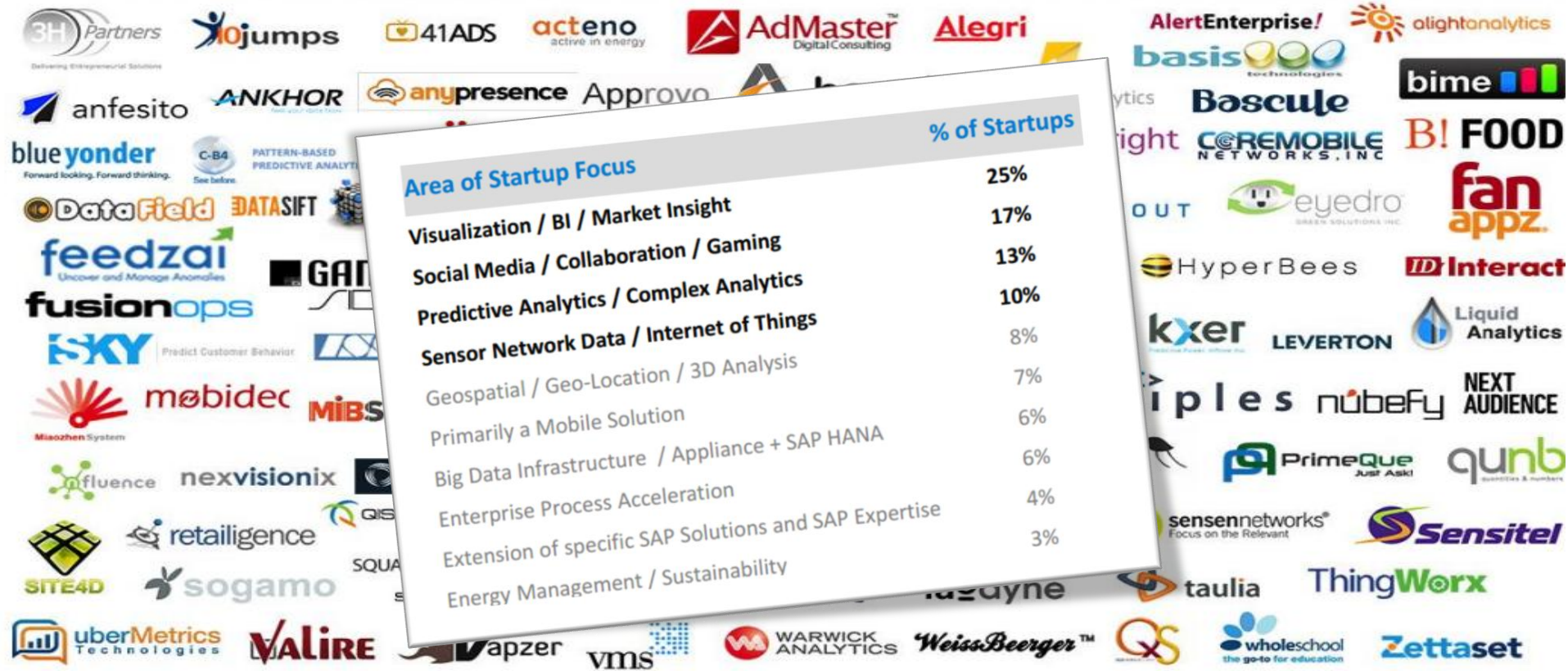
Easy build and migrate applications

Global cables manufacturing leader



- Custom **applications** Visual C++
- App Services HTML5 for app enhancements
- Browser mobile Business Intelligence for global visibility
- Real time replication
 - Integration with countries back-end

Our community has 650+ active startups, and is growing!



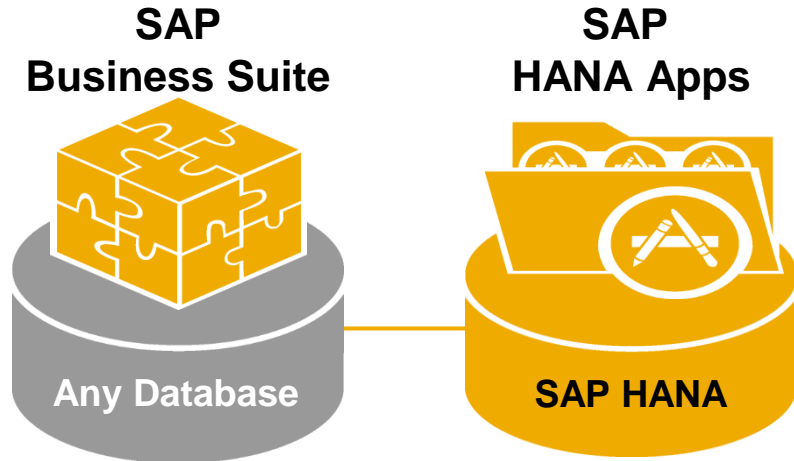


4. Multiple and Flexible Deployment Options

Multiple Deployment Options to Suit Your Business Needs

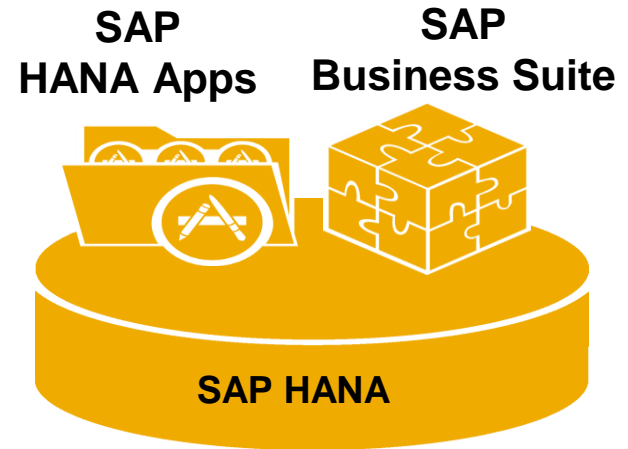
Side-by-side Scenario

Address specific and targeted business needs with real-time solutions



Integrated Scenario

Run your entire business on a single real-time data platform



Flexible Deployment Options

Choose and change your deployment options anytime

On Premise



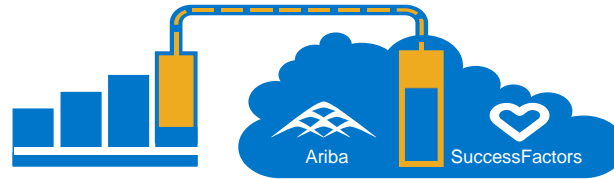
Run All SAP Solutions on SAP HANA

Build or deploy your own solutions on SAP HANA

Maintain all within your firewall

Upgrade or leverage existing infrastructure

Hybrid



Leverage SAP Cloud

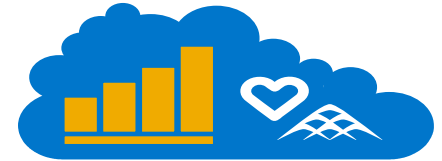
Migrate some solutions to the cloud

Create or deploy new SaaS apps in the cloud

Use cloud hosting and managed services

Deploy via **SAP HANA Enterprise Cloud** or public cloud

Cloud



Build, Run, Deploy all Applications in the Cloud

Consider Virtual Private Cloud option

Enable faster innovations

Simplify landscape

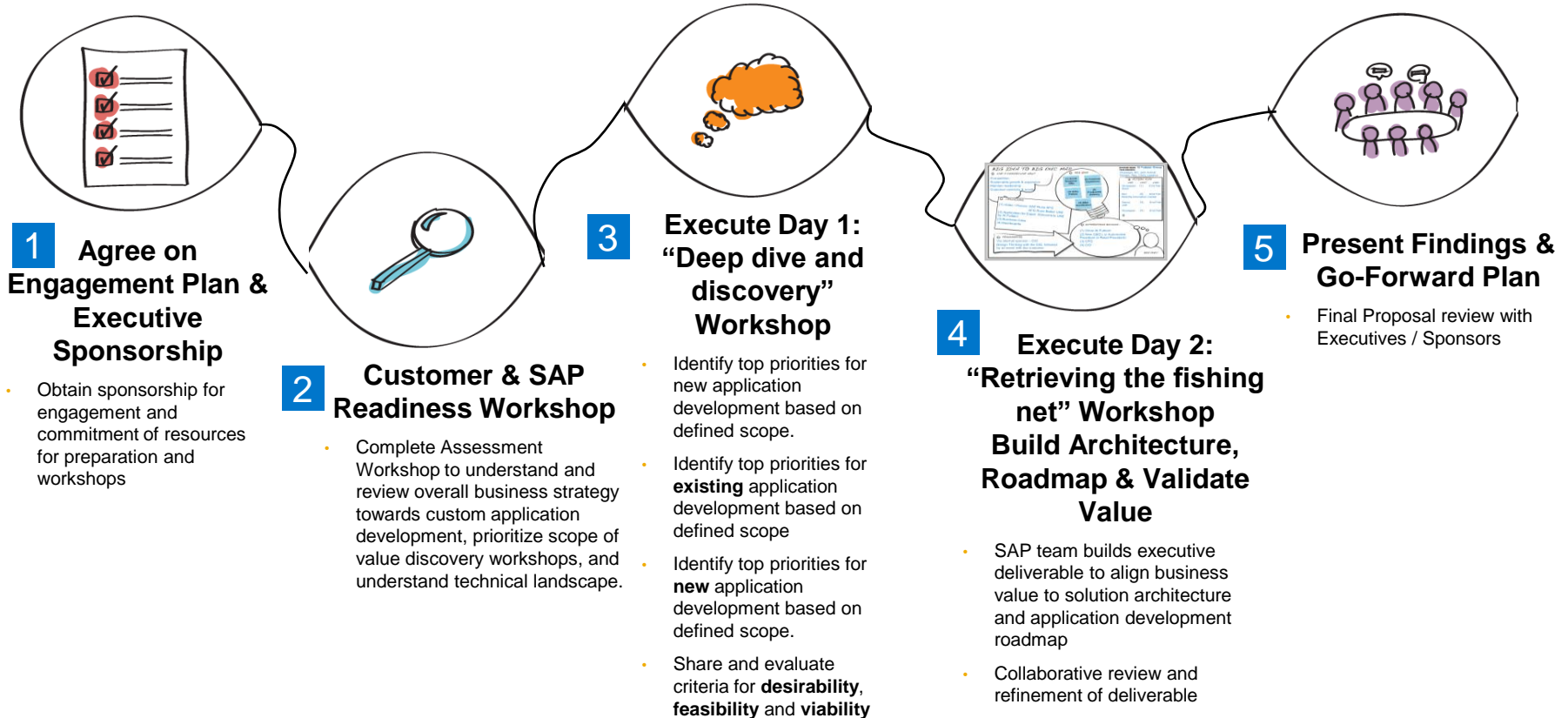
Migrate or build new applications in **SAP HANA Enterprise Cloud**



5. SAP Services offering

SAP Services - Discovery

Native app Workshop



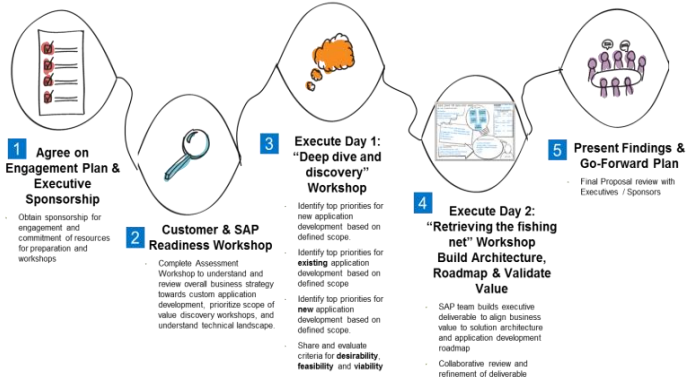
SAP IT Services – Discovery, Design and Build

Supporting the SAP HANA for Native Applications

Discovery



- Native app Evaluation Scenario Workshop

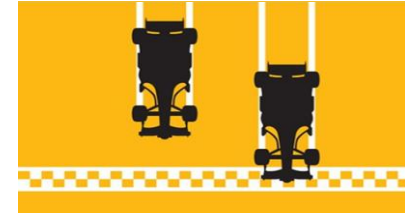


Design



- Architecture Advisory
- User Experience Advisory
- Strategy and Technical Design for SAP HANA
- Fiori custom applications Design

Build



- Technical Advisory
- Technical Implementation for SAP HANA
- Custom Development Maintenance and Support for HANA
- Fiori custom applications Development
- Custom Code adjustment Services

SAP Custom Developments

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Thank you

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