



# SAP IQ Road Map

June 2019

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# About SAP road maps

Companies today are planning their digital journeys – transforming business models, reengineering business processes, and reimagining work.

**SAP road maps** highlight innovations that may help you plan and implement your digital journey. They span products relevant to lines of business in your industry and explain how our innovations may add value to your business.

In our road maps, you can learn about our innovations along four different timelines:

1. **Recent innovations** for our products that have been launched in the past weeks or months and can already be purchased
2. **Planned innovations** for our products that are intended to be launched in the short term or midterm
3. **Product direction**, providing a long-term perspective on high-level development plans for innovations for our solutions – inspired by your requirements

Following the **2025** announcement of end of mainstream maintenance for some products covered in this road map, SAP is offering **guidance** on **recommended products**, which can be evaluated in [SAP Transformation Navigator](#).

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# SAP IQ

## Key trends, customer needs, and value proposition

### Key trends and impacts in business and technology

- Data volumes are constantly growing
  - Machine data
  - Sensor data
  - Information from mobile devices
  - Social media data
- New business opportunities have opened up around data analytics
  - Risk simulations
  - Fraud detection
  - Forecasting
  - Predictive CRM

### Customer needs and SAP IQ value proposition:

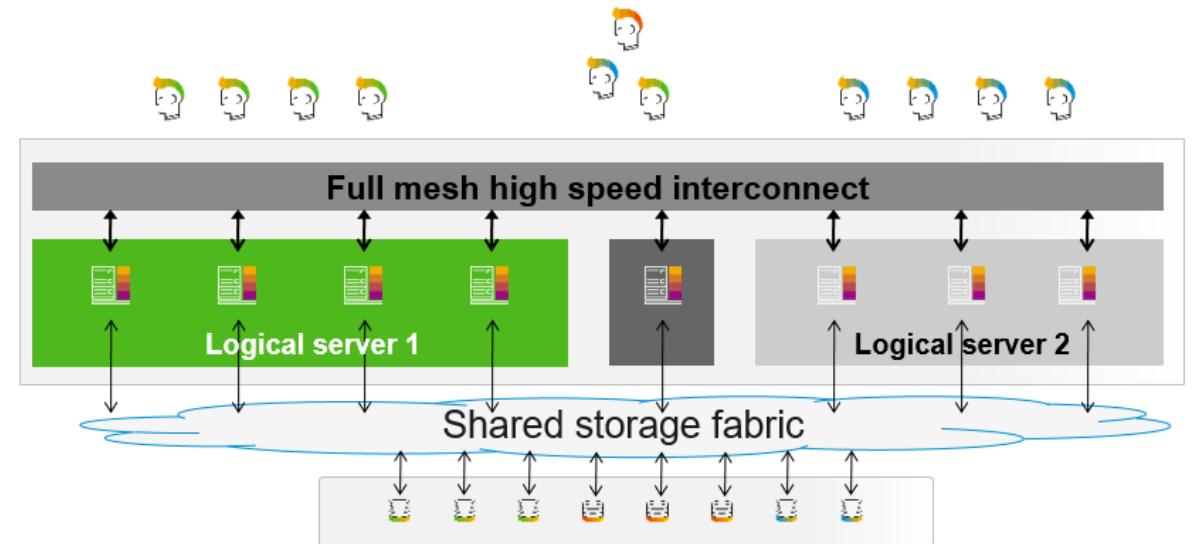
- Strong data analytics capabilities
- Scalability to handle large data volumes
- Superlative performance
- Easy administration
- Low TCO

# SAP IQ

## Database software

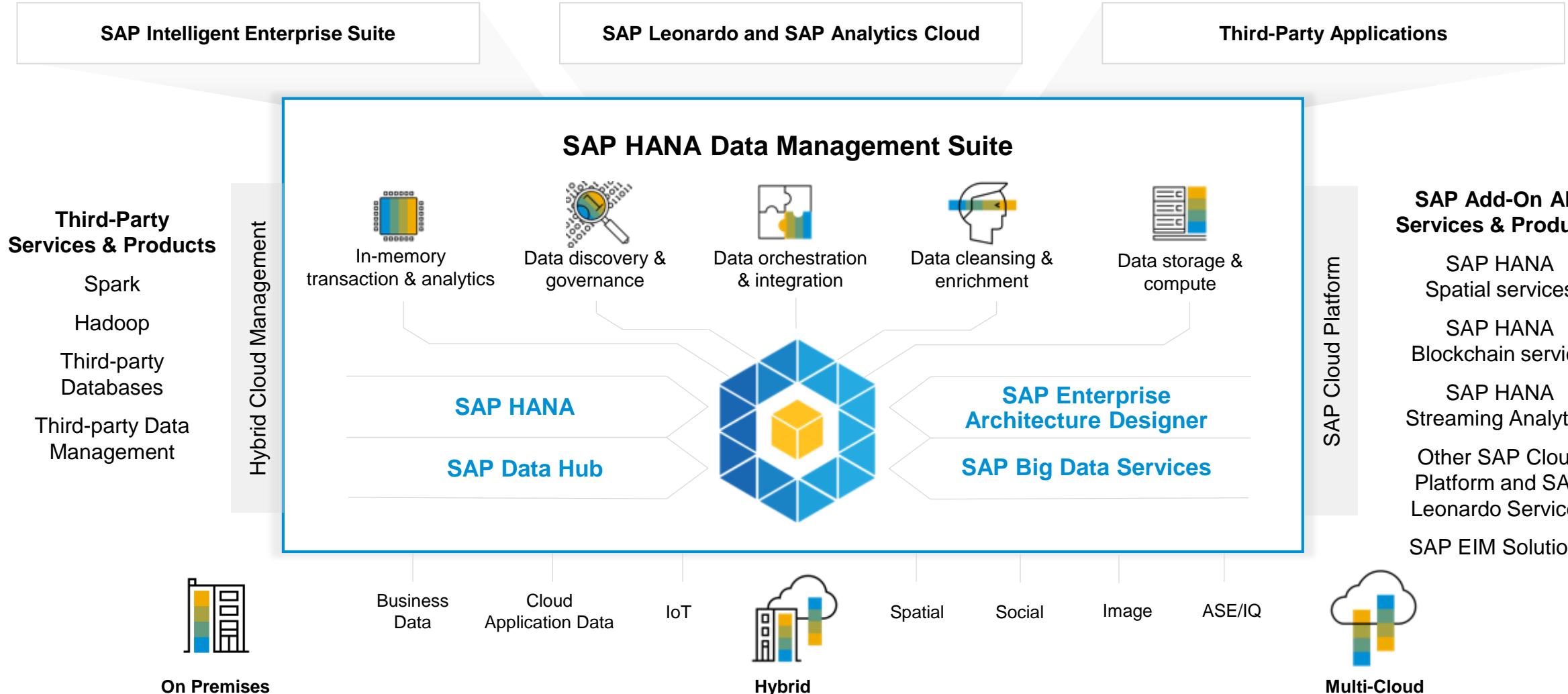
### Key capabilities

- **Fast data ingest:** fully parallel bulk data loading
- **Industry leading query engine:** rich SQL query processing on complex, ad hoc workloads
- **Data compression:** pioneering compression and indexing technologies
- **Scale out:** dynamic scale-out for complex analytics on petabyte-scale data volumes
- **Security:** comprehensive security features
- **Low TCO:** commodity blade hardware deployments, with low administrative overhead
- **Extensibility:** in-database analytics framework
- **Elasticity:** separation of storage and compute



# SAP HANA Data Management Suite

Powering the intelligent enterprise

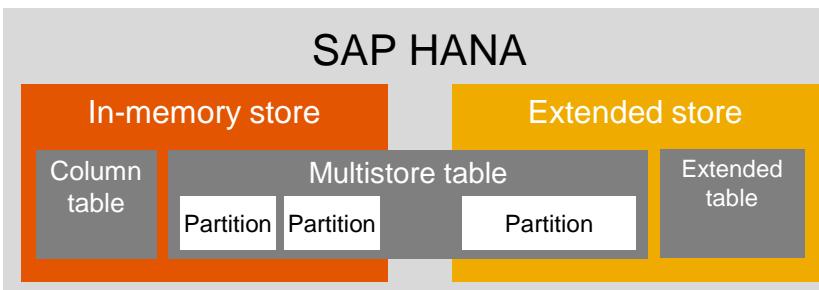


# SAP IQ 16.1

## Key technology within SAP's product portfolio

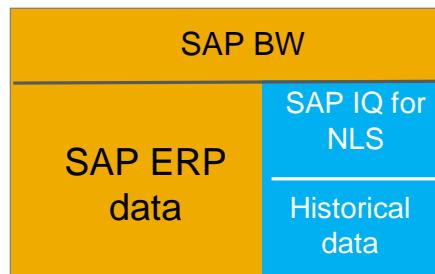
### SAP HANA dynamic tiering

- SAP IQ has been integrated with SAP HANA as an extended storage disk tier for large volume, infrequently accessed data.



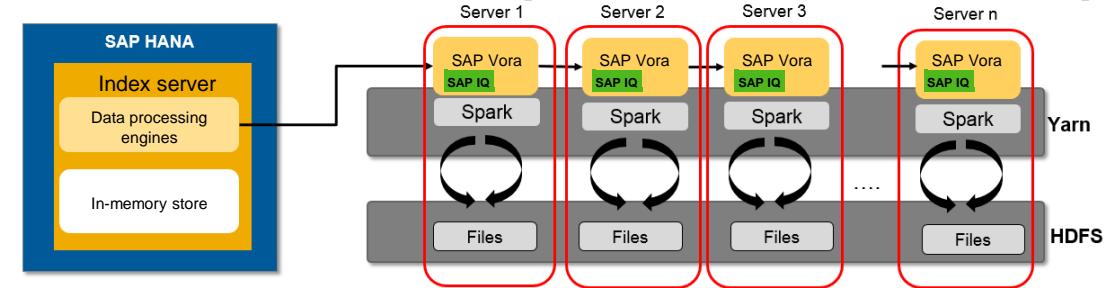
### SAP BW for NLS

- SAP IQ serves as a low-TCO archive store for SAP BW. Historical data is managed online, with excellent query performance.



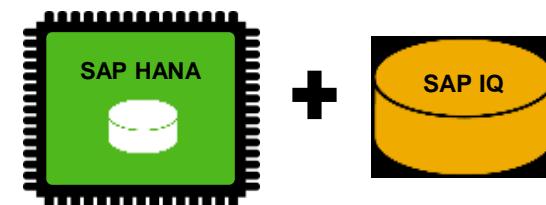
### Relational disk engine for SAP Data Hub runtime

- SAP IQ has been integrated with the SAP Data Hub runtime (SAP Vora) to operate as its disk engine for high-performance analytics on relational data.



### SAP IQ next to SAP HANA for petabyte-scale analytics

- SAP IQ manages petabytes of raw, structured data. Aggregates are moved into SAP HANA for real-time processing.



# SAP IQ

## Product road map overview – key themes and capabilities

### Recent innovations

#### Enterprise ready, mature columnar RDBMS

- Proven multi-Petabyte structured data warehouse capability
- Pioneering compression and indexing technologies
- Extreme throughput data loading, and concurrent data loading for real-time analytics
- Industry leading query processing for complex, ad hoc workloads
- In-database analytics framework
- Dynamic scale-out for complex analytics
- Comprehensive security features

#### Data center operations

- Point in time recovery
- Integrated storage replication solutions
- Commodity blade hardware

#### SAP ecosystem integration

- SAP HANA dynamic tiering – integration of IQ with HANA database for aged data; BACKINT performance improvements

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### 2019 – Planned innovations<sup>1</sup>

#### Extreme scale

- Enhanced support for distributed file systems, such as GPFS
- Ability to export data in zipped format
- Performance improvements and other enhancements to operational utilities, such as database consistency checker (DBCC)
- Improved query performance
- User-defined mutexes and semaphores
- Ability to load data into SAP IQ from Apache Parquet files

#### SAP software ecosystem integration

- SAP HANA dynamic tiering: heterogeneous multistore tables, new monitoring views
- SAP HANA dynamic tiering: 7-digit TIMESTAMP
- SAP HANA dynamic tiering: asynchronous table replicas
- SAP HANA dynamic tiering: direct connect to extended storage server for improved administration

### 2020 – Product direction<sup>1</sup>

#### Extreme scale

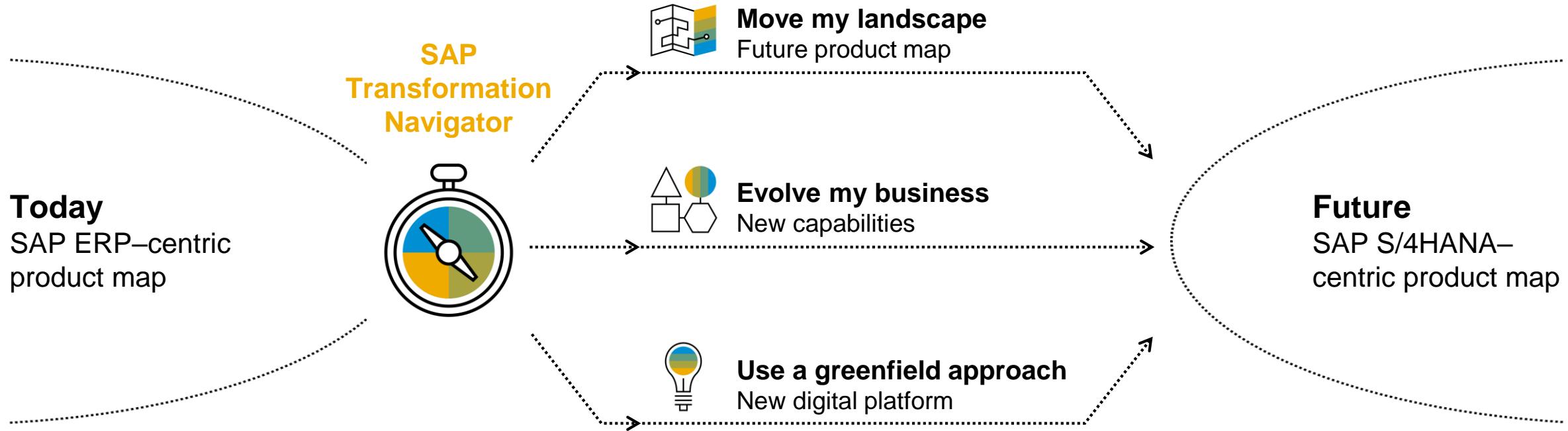
- Continued performance improvements to server side diagnostics
- Additional server side diagnostics for enhanced monitoring and supportability
- Increase of the maximum database file-size limit from 4TB to 100TB

#### SAP software ecosystem integration

- SAP HANA dynamic tiering: new monitoring views
- SAP HANA Data Lake: cloud native relational data lake service within HANA Cloud

# SAP Transformation Navigator

Supporting your digital transformation



## SAP Transformation Navigator provides you with clear guidance to chart the Intelligent Enterprise:

- Based on your currently used products, this free self-service produces an individualized report highlighting business value, detailing integration to SAP S/4HANA and other cloud products, and explaining transformation services and license information.
- With the new time-slider feature, you can even identify the best point in time to engage in your journey to becoming an intelligent enterprise.
- Discover the tool and your transformation path at <https://support.sap.com/stn>.

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