



SAP Master Data Governance on SAP S/4HANA and SAP Master Data Governance Road Map

March 2019

PUBLIC

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For all recent and planned innovations, potential data protection and privacy features include simplified deletion of personal data, reporting of personal data to an identified data subject, restricted access to personal data, masking of personal data, read access logging to special categories of personal data, change logging of personal data, and consent management mechanisms.

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
4. **Product vision**, providing a high-level and long-term business perspective on innovations for our products

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Product overview

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Product road map

- Recent innovations
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SAP Master Data Governance

Consistent high-quality master data for your entire organization

SAP Master Data Governance is a **state-of-the-art master data management application**, providing **preconfigured**, domain-specific master data governance to **monitor and remediate** eventual data quality issues, to **centrally** create, change, and distribute, or to **consolidate** master data across your **complete enterprise system landscape**.

There are **two versions**: **SAP Master Data Governance on SAP S/4HANA** and **SAP Master Data Governance** (technically on SAP ERP 6.0).

Central governance or consolidation for consistent master data

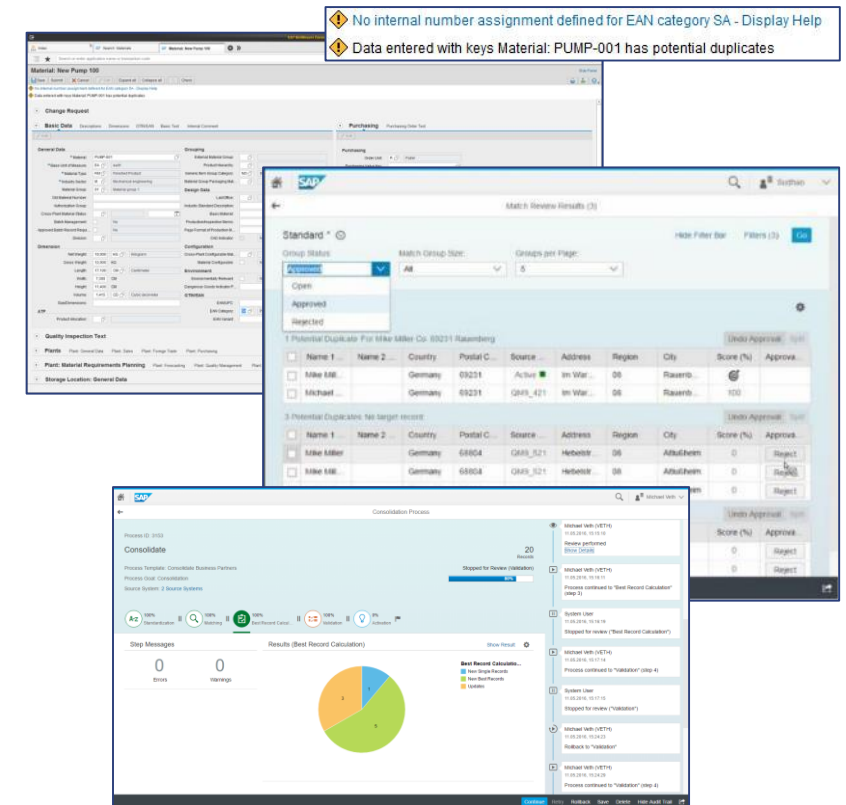
- Enables centralized governance, compliance, and transparency of master data during creation and change through integrated staging, approval, and central audit trail
- Delivers consistent definition, authorization, and replication of key master data entities
- Eliminates error-prone manual maintenance processes for master data in multiple systems
- Supports consolidation of decentralized master data in any enterprise system landscape to create best records and key mapping between duplicates
- Optionally combines consolidation with central governance for sustained master data quality

Data quality

- Analyze process quality, manage and monitor data quality, and optionally integrate with SAP HANA smart data quality, SAP S/4HANA Cloud for data enrichment, or SAP Data Services for quality, enrichment, and remediation

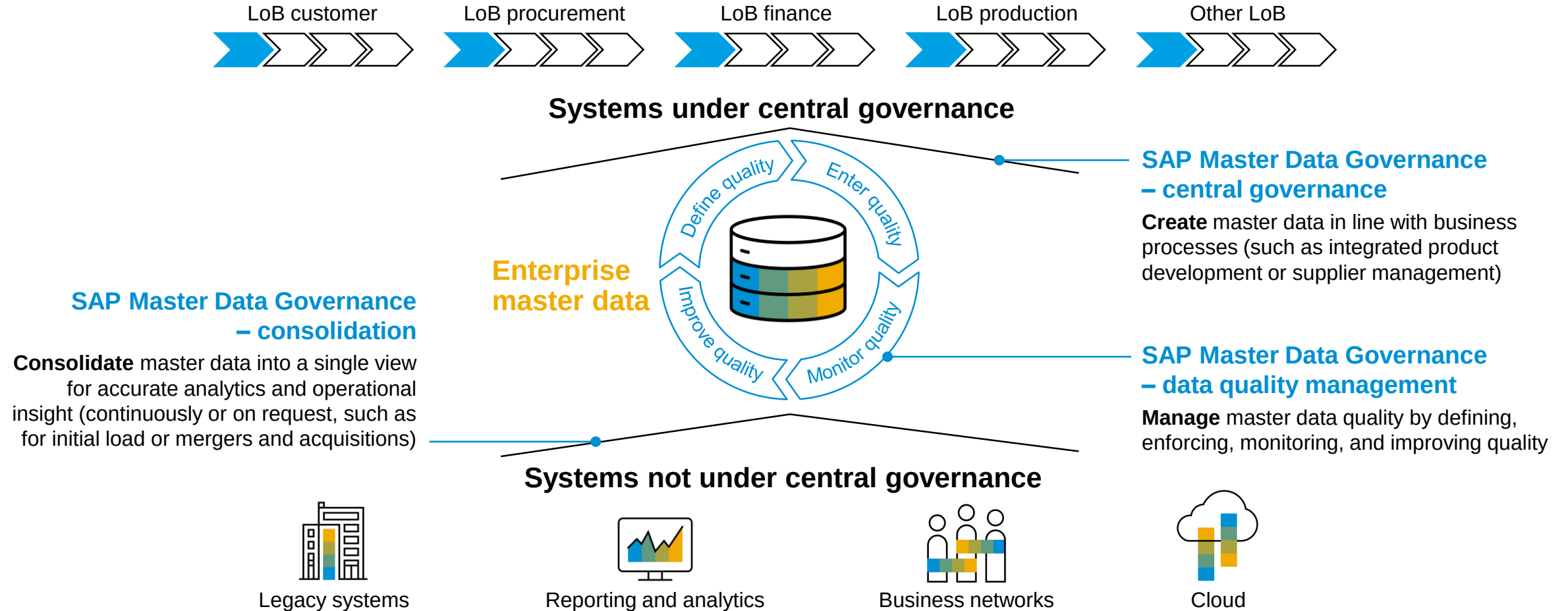
Integration and reuse

- Native integration and openness to integrate 3rd-party services
- Reuse of SAP data model, existing business logic, and configuration for data validation
- Open application to manage your own master data flexibly also for non-SAP environments



SAP Master Data Governance

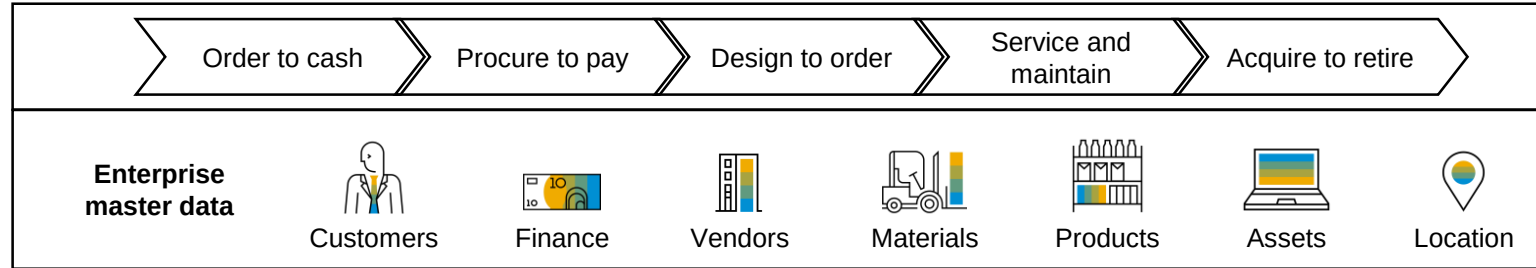
In the master data management product portfolio



All typical approaches are supported: central governance with distribution, decentralized ownership with consolidation, data quality monitoring with remediation

SAP Master Data Governance

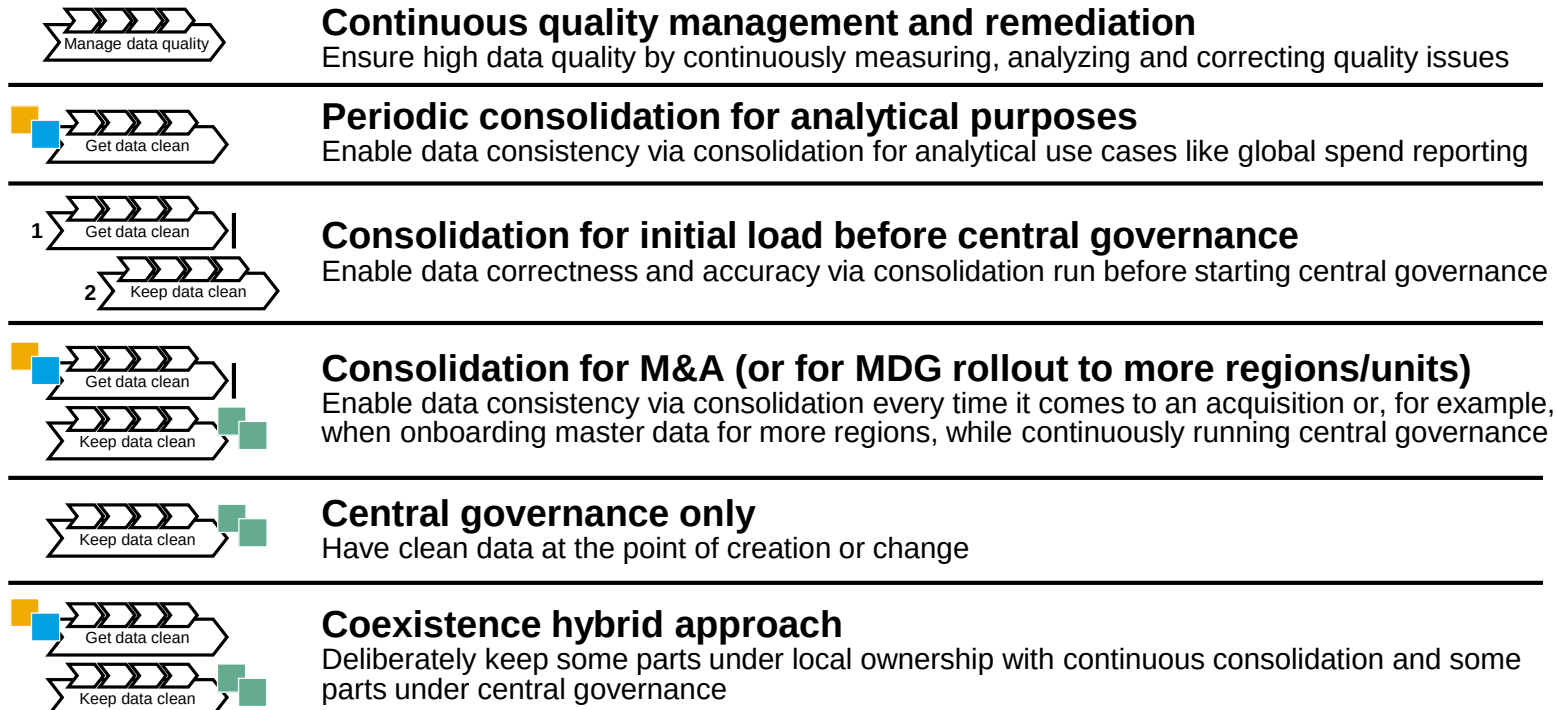
All domains and processes



Key capability

One application for the entire enterprise master data mgmt.

All use cases and implementation styles

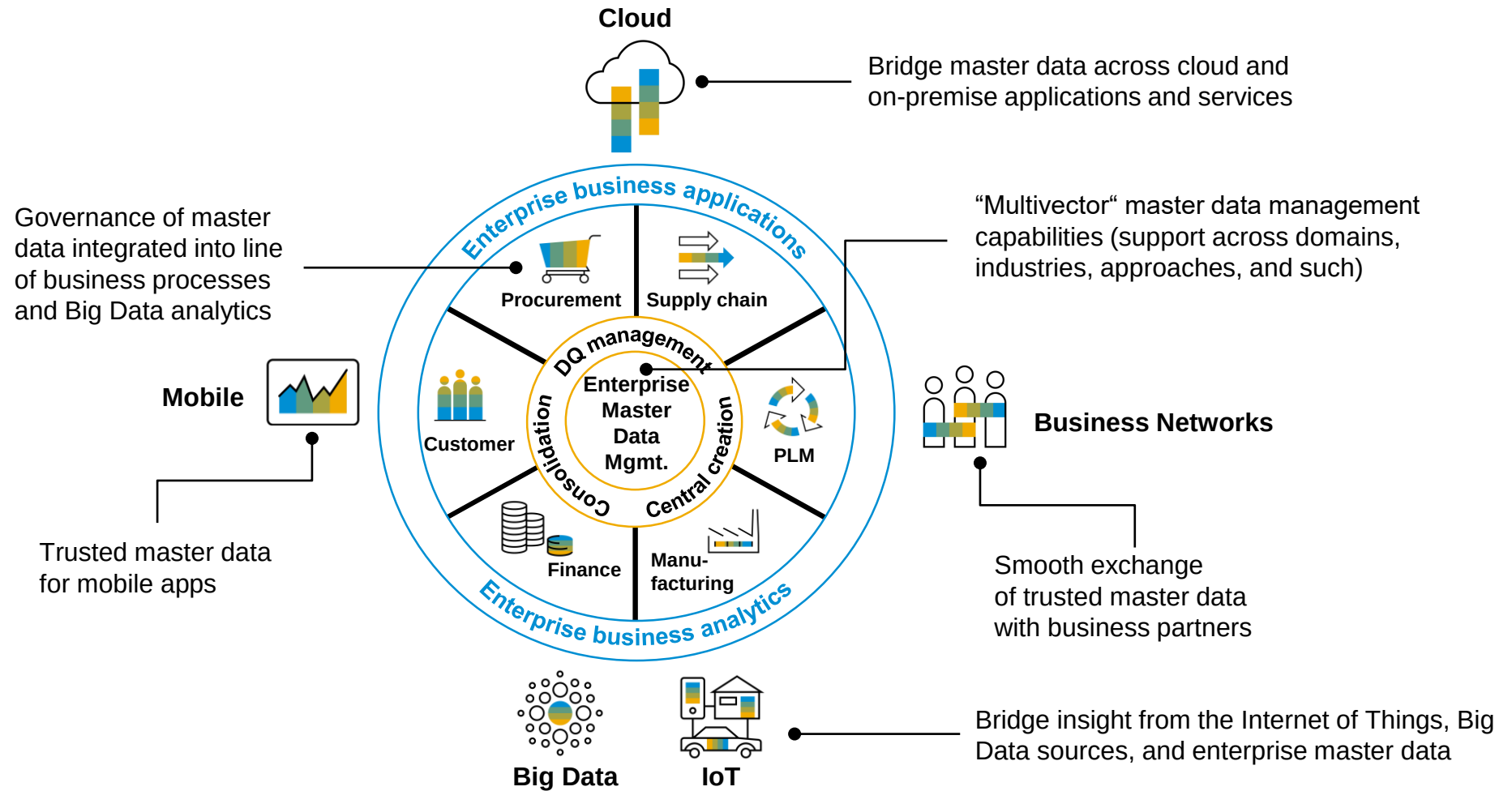


“SAP Master Data Governance aligns with our strategic vision for centralized master data management. Validations can be built in as per our requirements with minimum customization and enhancements. We also improved our operations with standard workflows and a single version of master data.”

*Suryanarayana Grandhi
Head of SAP Material Management
Tata Power Company Limited*

SAP Master Data Governance

Key trends, customer needs, and value proposition



Master data is the foundation of digital business

Master data governance in hybrid landscapes

Synchronized master data across on-premise and on-demand solutions

All systems always in synch

- Master data creation can happen in on-demand systems, on-premise systems, or in SAP MDG on SAP S/4HANA
- De-central creation triggers a process in SAP MDG on SAP S/4HANA
- After approval, enriched high-quality master data is replicated to all relevant cloud and on-premise systems

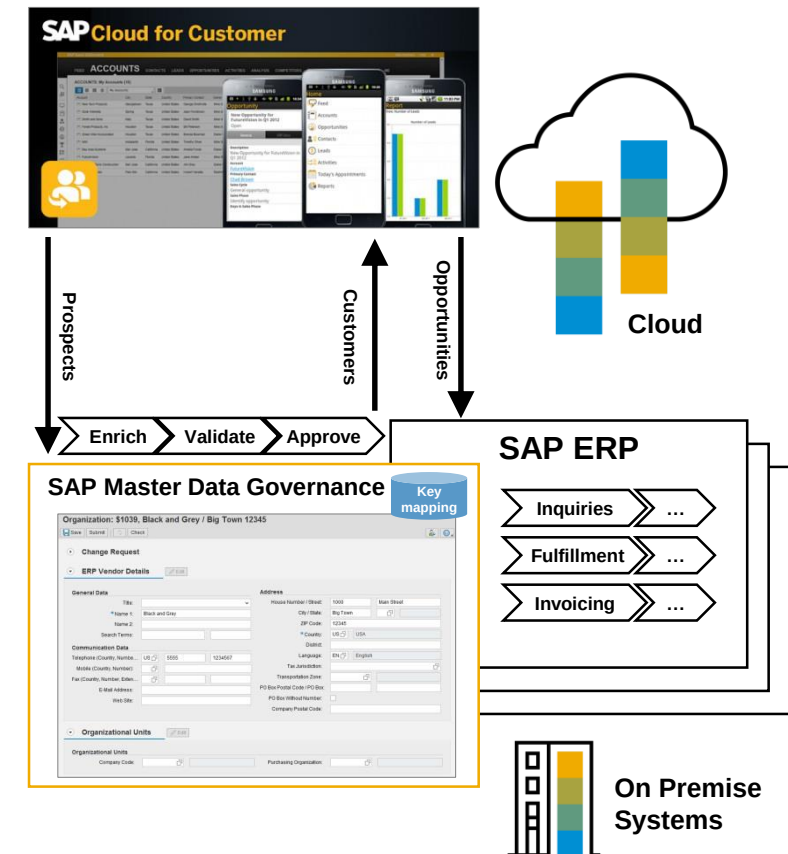
SAP MDG provides adaptable integration

- Integration scenarios can be implemented based on standard capabilities, like for example using extendable SOA services
- Any system can be involved as source and/or target
- Pre-built integration for selected SAP systems

Move to the cloud at your own speed

- A master data hub (like MDG) that synchronizes master data across on-premise and on-demand solutions is a prerequisite for your system landscape simplification and your step-by-step move to the cloud

Real-life customer example: SAP MDG managing prospect and customer data between cloud and on premise systems



End-to-end integration in heterogeneous landscapes

SAP Master Data Governance

Business-led integration

SAP Master Data Governance provides interfaces based on a process choreography for easy end-to-end integration...

... not just technical interfaces

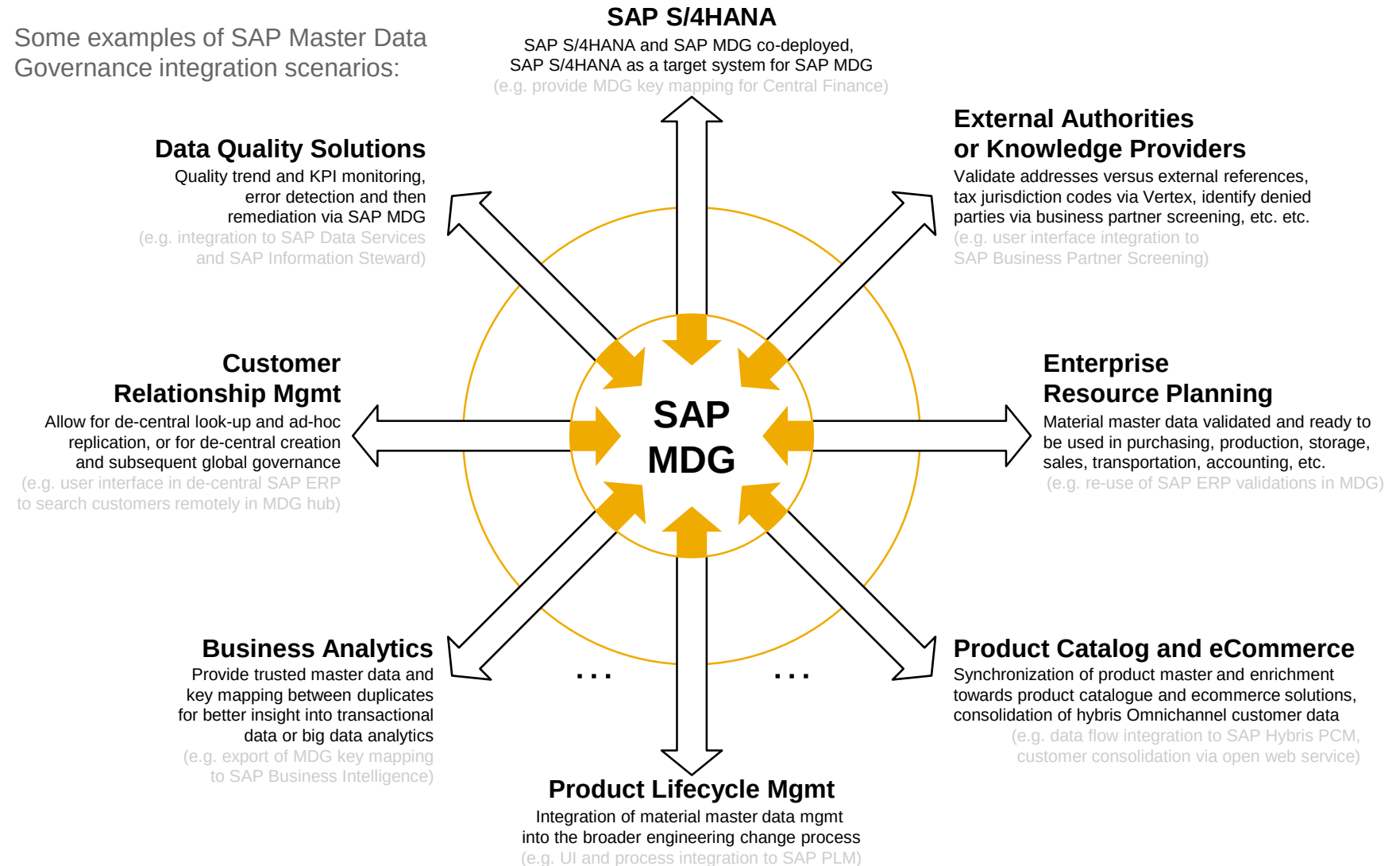
Not only for SAP

SAP Master Data Governance provides open interfaces to integrate with every solution as needed

Out-of-the-box for SAP

In addition, for SAP to SAP integration, we provide out-of-the-box integration content

Some examples of SAP Master Data Governance integration scenarios:



The role of SAP MDG in the context of SAP S/4HANA

MDG can accelerate your S/4HANA roadmap

SAP S/4HANA does not change the role of SAP Master Data Governance

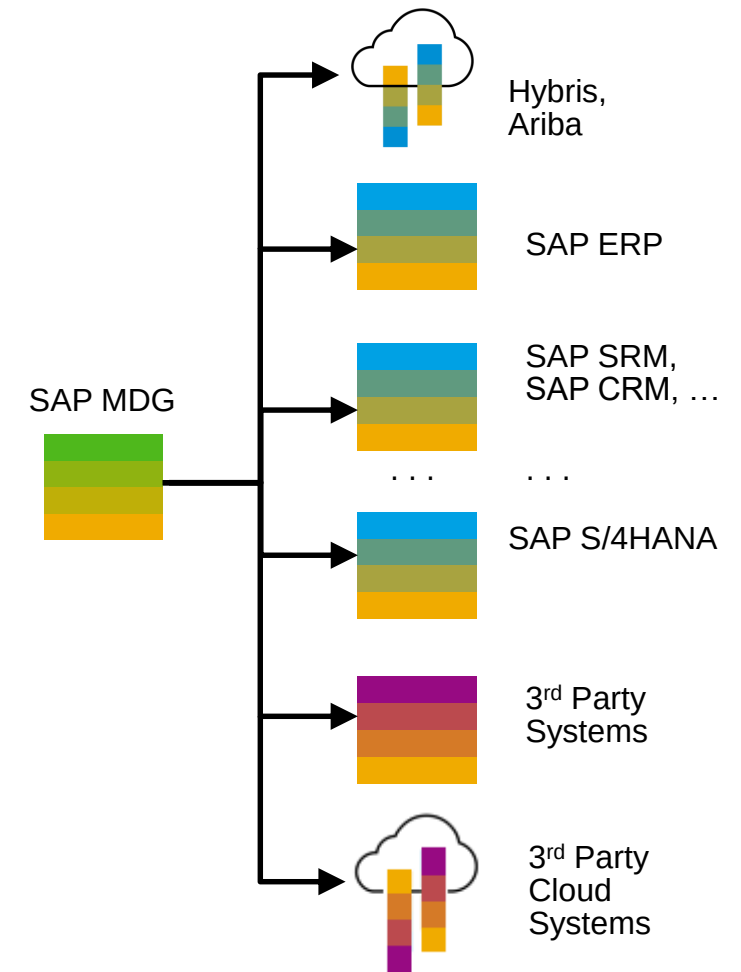
- Distribute or consolidate master data across all systems in the landscape: for example SAP Business Suite systems, SAP S/4HANA systems, other SAP and non-SAP systems...

Integration with SAP S/4HANA is available today

- SAP S/4HANA can be a distribution target for SAP Master Data Governance
- Central Finance can leverage MDG's centralized master data & key mapping for aligned postings
- SAP Master Data Governance can be co-deployed on SAP S/4HANA on premise
- Simplified versions of Consolidation, Mass Processing and Master Data Quality Remediation available for public cloud consumption in SAP S/4HANA Cloud

Preparing for a move to SAP S/4HANA

- SAP Master Data Governance is a good way to get experience with a controlled subset of SAP S/4HANA before a full blown implementation
- SAP Master Data Governance is a good way to ensure data quality and readiness before SAP S/4HANA implementation and reduce deployment risk.
- SAP Master Data Governance is a good way to establish strong governance processes that will help you maintain master data quality after SAP S/4HANA go live

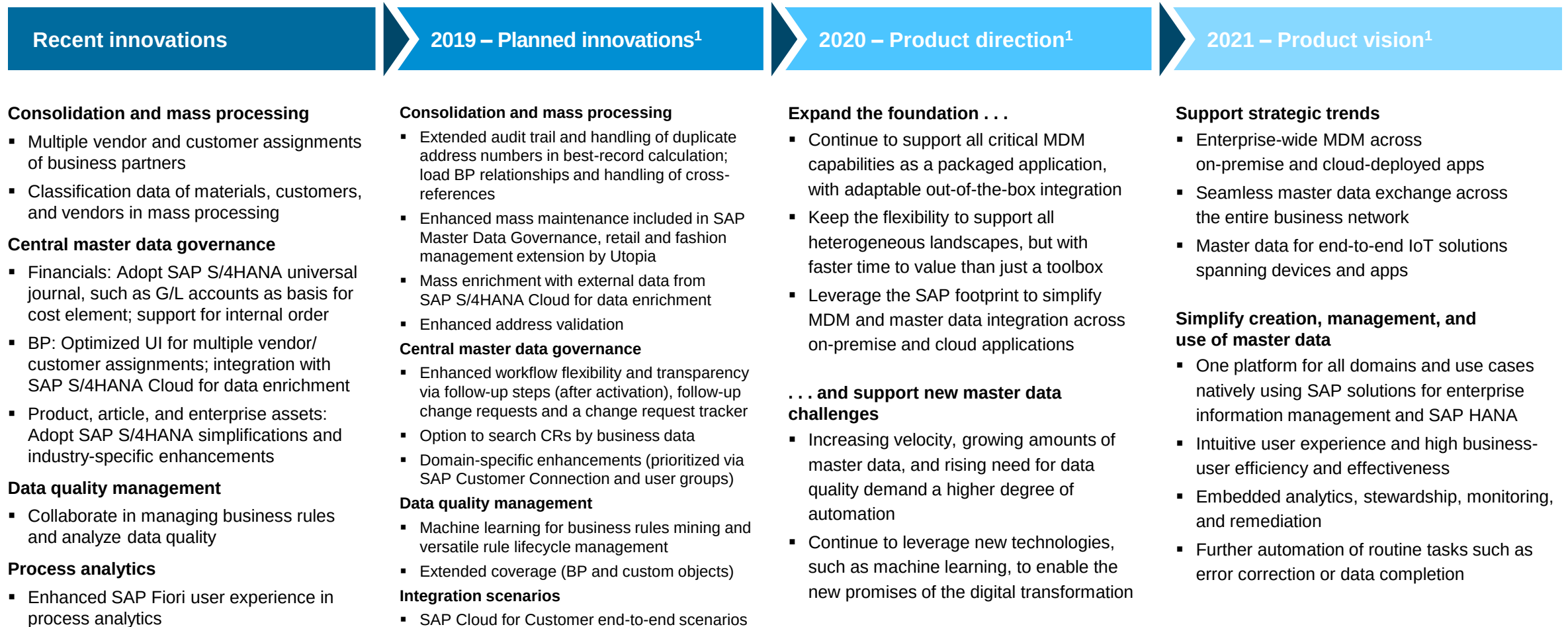


Remark:

SAP innovations in SAP MDG on S/4HANA are outpacing innovations in SAP MDG on ERP

SAP Master Data Governance on SAP S/4HANA

Product road map overview – Key innovations²

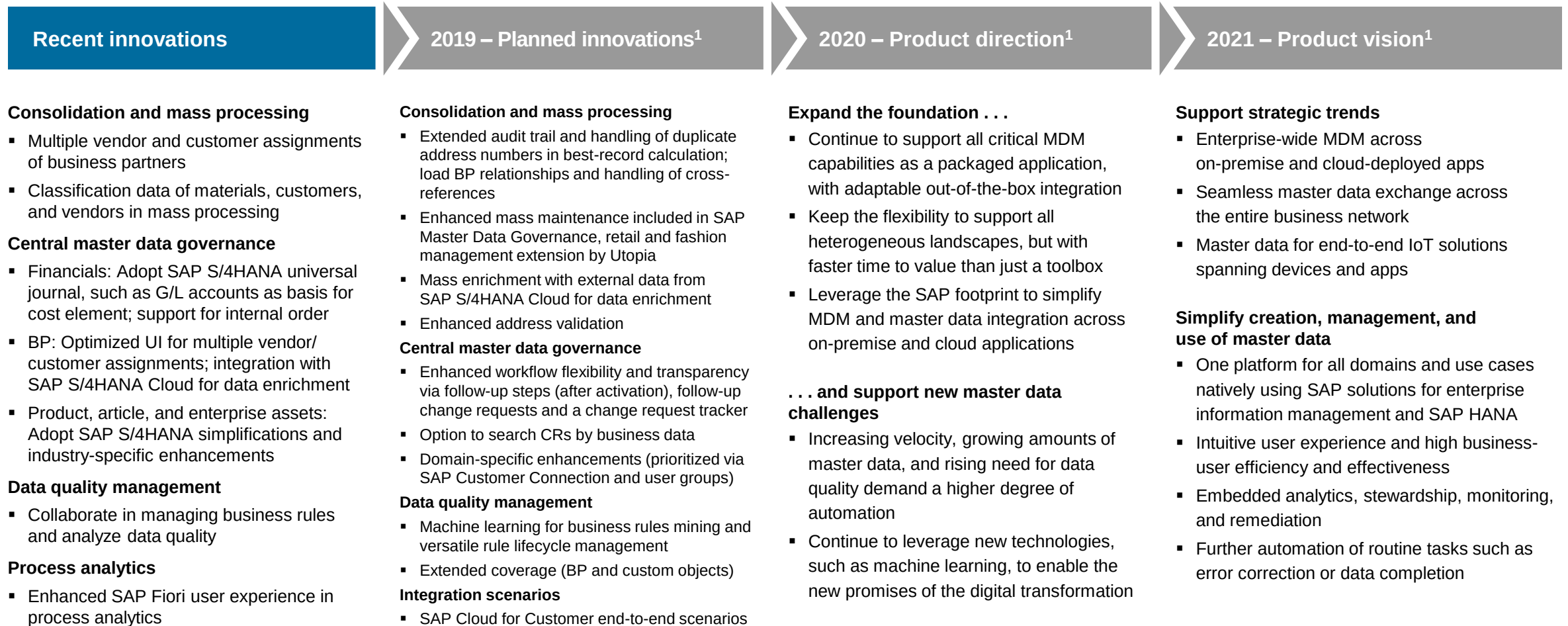


1. This is the current state of planning and may be changed by SAP at any time without notice.

2. Many key innovations only planned for SAP Master Data Governance on SAP S/4HANA – that is, they are not planned for SAP Master Data Governance (on SAP ERP 6.0)

SAP Master Data Governance on SAP S/4HANA

Product road map overview – Key innovations²



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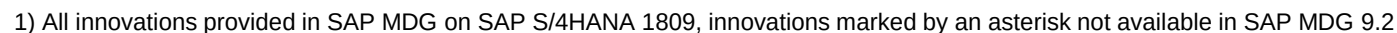
Benefit in performing enterprise master data management with MDG innovations across key disciplines such as **master data consolidation, central governance, mass processing, and master data quality management.**

- Multiple vendor and customer assignments of business partners
- Classification data of materials, customers, vendors in mass processing

- Financial Data: Adopt S/4HANA universal journal, i.e. G/L accounts as basis for cost element*; support for new domain: internal order
- Product: Adopt S/4HANA simplifications and industry-specific enhancements*
- Business Partner: Integration with SAP S/4HANA Cloud for Data Enrichment and enhancement in multiple customer and vendor assignments

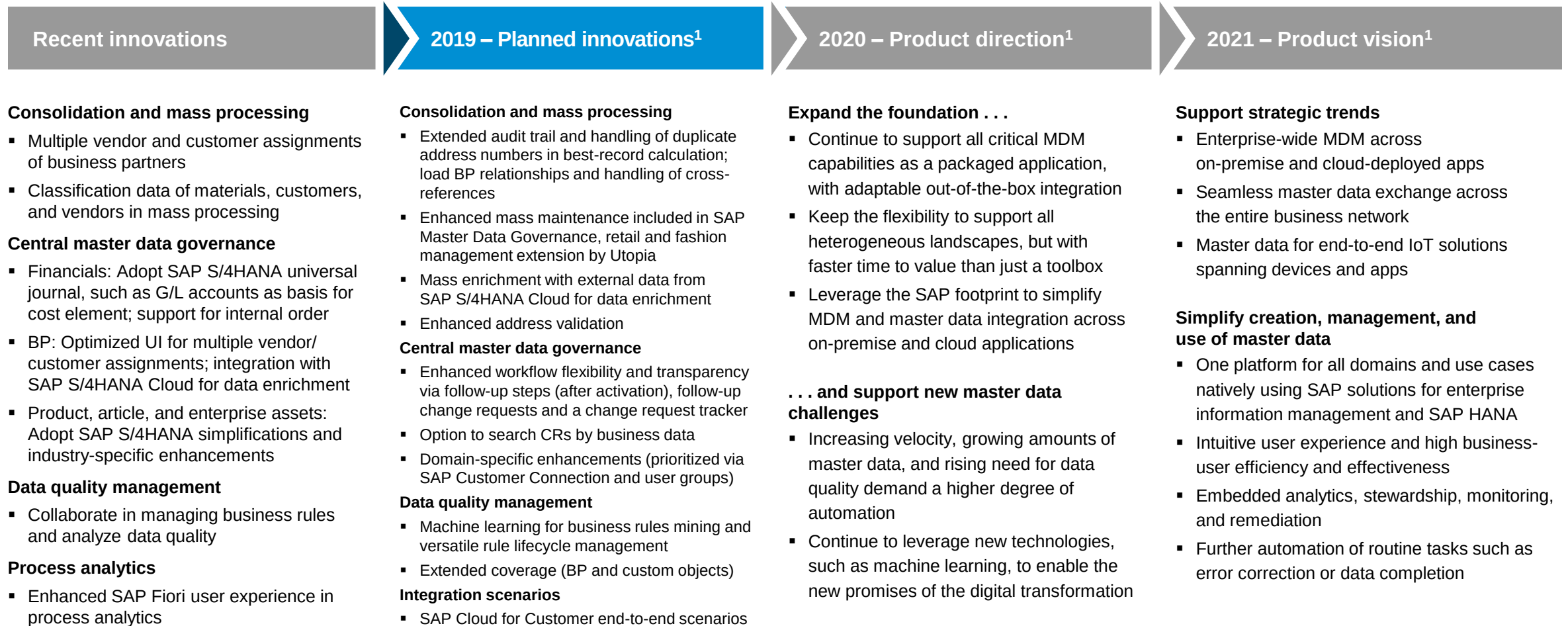
- Manage business rules in collaboration of business users and data stewards*
- Measure and analyze data quality and trends*
- Correction of data quality issues supported by worklists and embedded analytics*

- Enhanced SAP Fiori user experience in process analytics*



SAP Master Data Governance on SAP S/4HANA

Product road map overview – Key innovations²



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SAP Master Data Governance – 2019 Planned innovations

Master data excellence for the digital business

Comprehensive processes for the entire master data lifecycle, covering central governance and consolidation

Empowering business agility with data quality management, process analytics, and a consumer-grade user experience

Strong foundation for improved business efficiency and process flexibility, enabling simplification

Consolidation and mass processing

- Extended audit trail and handling of duplicate address numbers in best-record calculation; load BP relationships and handling of cross-references
- Enhanced mass maintenance included in SAP Master Data Governance, retail and fashion management extension by Utopia
- Mass enrichment with external data from SAP S/4HANA Cloud for data enrichment
- Enhanced address validation

Central master data governance

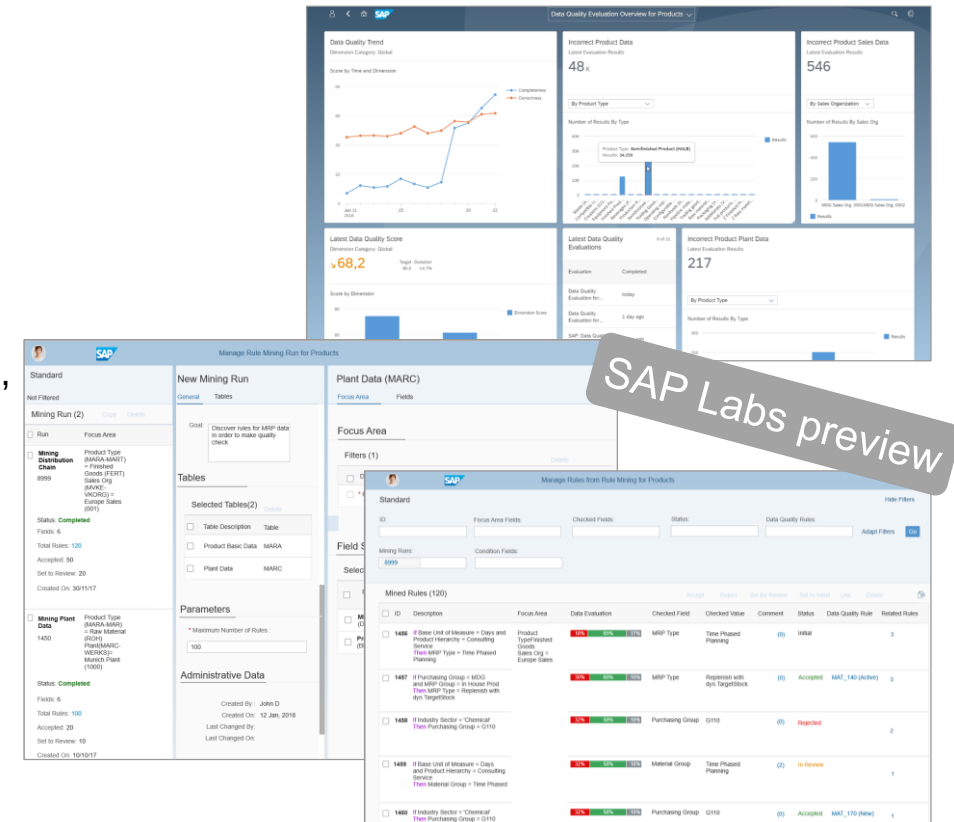
- Enhanced workflow flexibility and transparency via follow-up steps (after activation), follow-up change requests, and a change request tracker
- Option to search change requests by business data
- Domain-specific enhancements (prioritized through SAP Customer Connection and SAP user groups)

Data quality management

- Machine learning for business rules mining and versatile rule lifecycle mgmt.
- Extended coverage (business partner, customer, supplier, and custom objects)

Integration scenarios

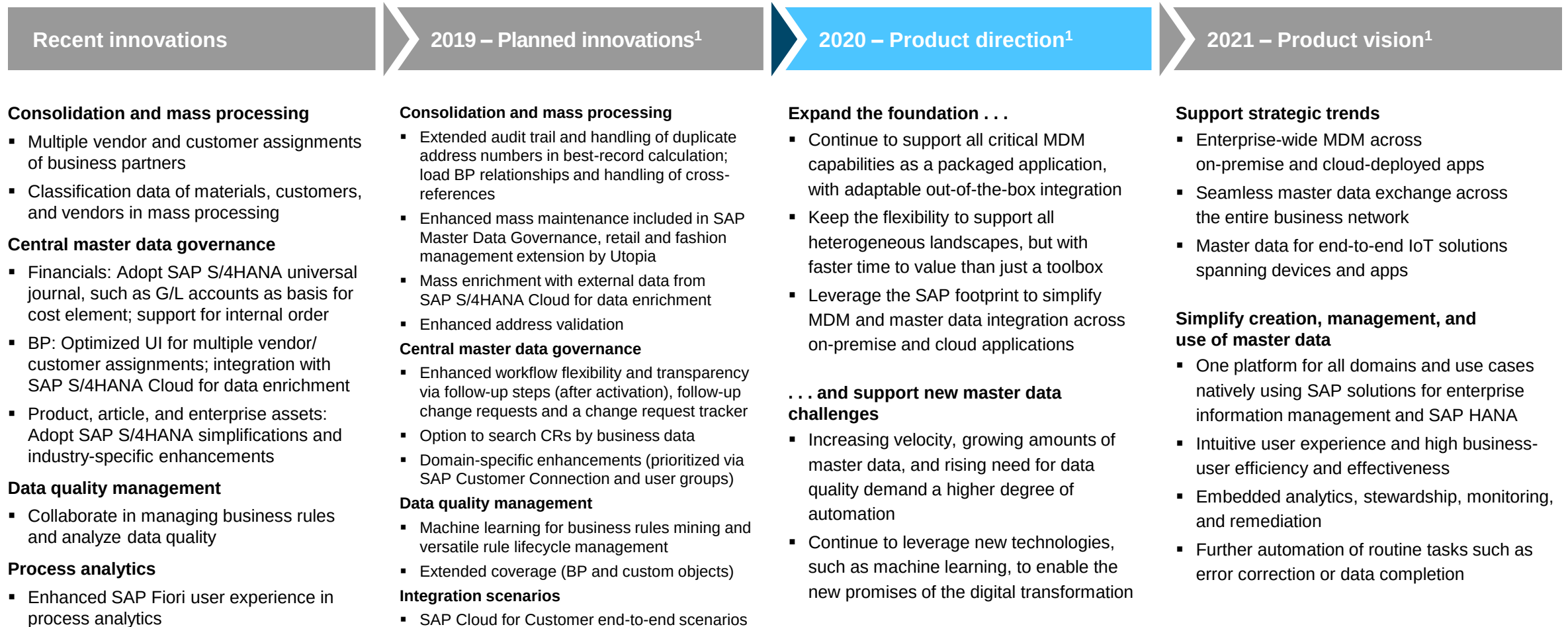
- SAP Cloud for Customer end-to-end scenarios



This is the current state of planning and may be changed by SAP at any time.

SAP Master Data Governance on SAP S/4HANA

Product road map overview – Key innovations²



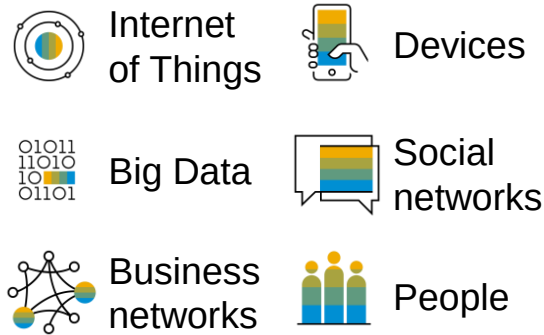
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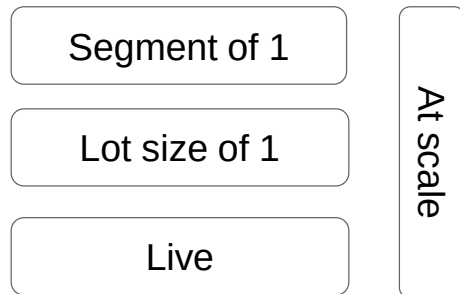
SAP Master Data Governance

Major product trends or direction update: Master data for the intelligent enterprise

Digital economy



Digital transformation



Key impact on master data (mgmt.)

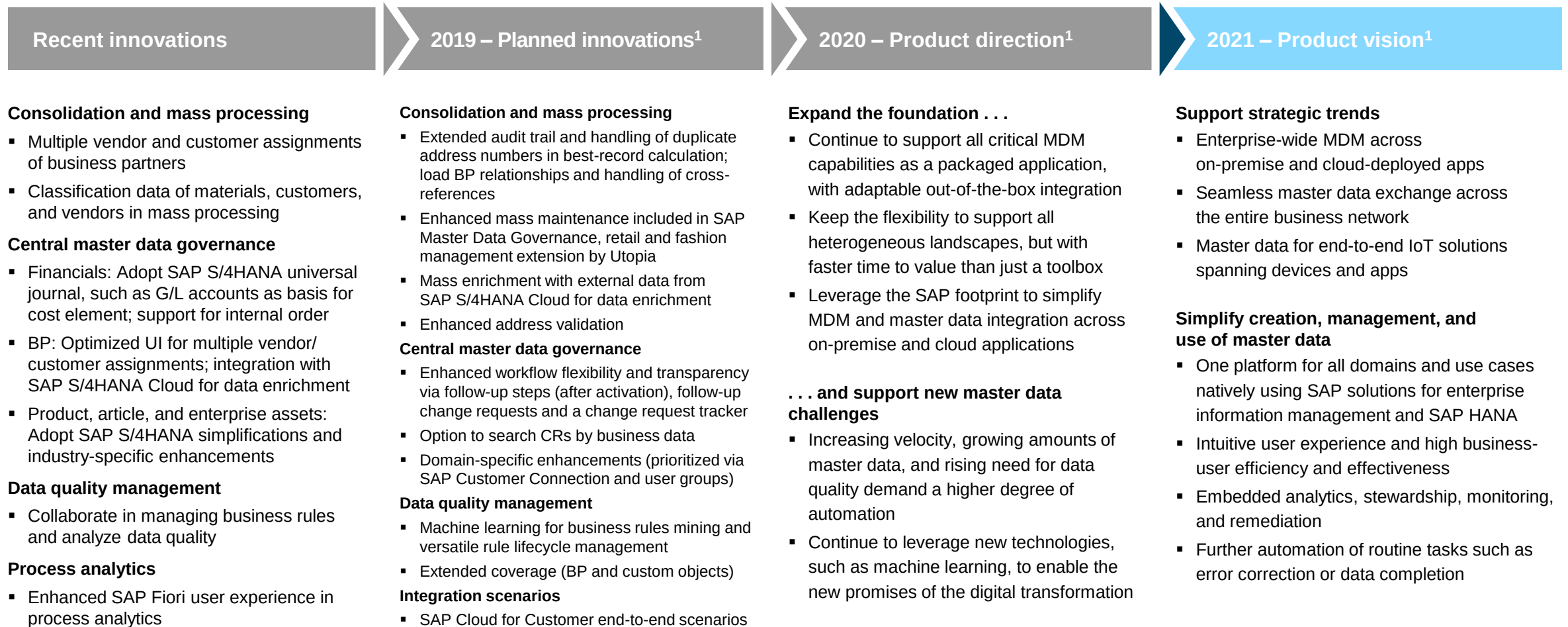
- **Individualized products and services** to cover the individual needs of the customer or consumer lead to **larger master data amounts**
- Scalable, efficient processes and higher degree of automation **require increased quality of master data** across the enterprise
- **More master data** is required in **even higher quality**: To enable the digitalization and automation of business processes

Product direction

- Continue to **support all critical** MDM capabilities in **one single application**
- Leverage **SAP's footprint** in apps, analytics, and business networks to **simplify** MDM and **integration** across on-premise and cloud applications
- **Support new master data challenges** for increased velocity and master data amounts
- Companies **cannot** increase the **manual effort** they put into MDM to achieve higher quality on larger amounts of master data
- **Leverage new technologies**, such as machine learning for increased **intelligence and automation** in master data handling

SAP Master Data Governance on SAP S/4HANA

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SAP Master Data Governance

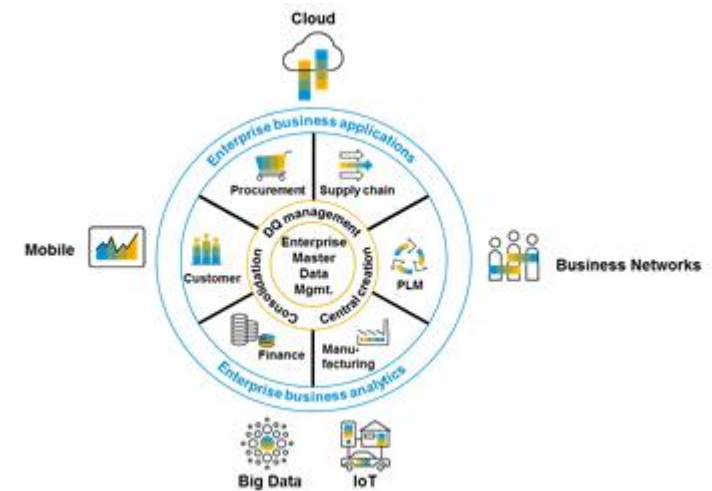
Areas of future investment to support high-quality master data for every use case

Support current and future strategic trends

- Enterprise-wide master data management across heterogeneous landscapes with applications deployed on premise or in the cloud
- Smooth exchange of master data across the entire business network value chain
- Support master data for comprehensive IoT or Big Data solutions spanning devices, platforms, and applications
- Mobile capabilities that are fully integrated into back-end systems

Simplify the creation, management, and use of master data

- One platform supporting all domains, styles, and use cases available on premise or in the cloud, natively using SAP's information management portfolio and SAP HANA
- Intuitive user experience and high efficiency through business-oriented interfaces, flexible workflow, and integration of content and context
- Embedded analytics and stewardship capabilities for improved master data quality through monitoring, root-cause analysis, and remediation
- Automation using machine learning for things such as error detection and correction, completion of missing attributes, entity resolution, rule detection, and more



SAP Master Data Governance and cloud consumption models

"MDM for the cloud" available today, evolving MDM services and networks in the cloud

Enterprise master data is part of companies' Digital Core

SAP MDG is offered on premise and in the private cloud, today

In the future, we plan to leverage SAP S/4HANA Cloud and SAP Cloud Platform as the platform to extend MDM scenarios for consumption in the public cloud

Master Data Management support for cloud applications

SAP MDG customers synchronize master data between all cloud and on premise applications, today

SAP provides cloud-based data integration and data quality capabilities

Advanced local master data maintenance in SAP S/4HANA Cloud, like e.g. business partner data enrichment, or re-use of MDG code for mass maintenance...

Leveraging Micro Services and Business Networks

SAP Data Quality Management, microservice, Identity-as-a-Service, ...

SAP Asset Intelligence Network, SAP Ariba, SAP Hybris, ...

SAP Cloud Platform-based microservices planned as an alternative way to synchronize between SAP MDG and any public cloud application (SOAP & ODATA)



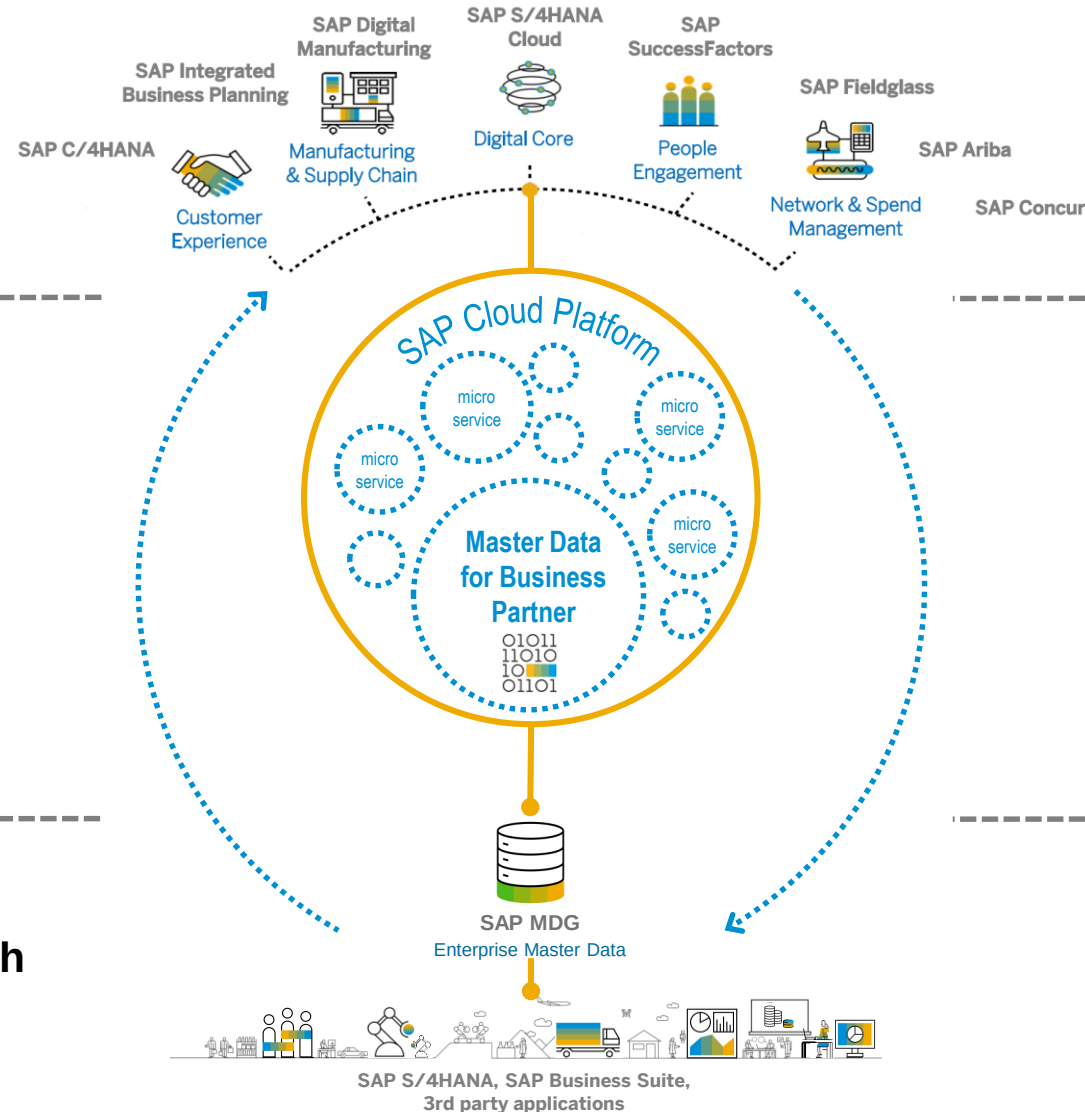
Cloud based Master Data Sharing in Context of Enterprise Master Data

Apply Master Data capabilities along the business use cases

Demand-driven **master data consumption** by cloud applications

Master data services on SAP Cloud Platform for **flexible master data sharing**

SAP Master Data Governance for providing **trusted master data in high quality** into all business processes across the landscape



Benefits and value-add

- ◆ Modular and easily scalable
- ◆ Potential reuse of master data in custom built apps without own persistency
- ◆ Scalable access to master data for all cloud applications
- ◆ CRUD services, federation and replication (OData/SOAP) for reuse by cloud applications
- ◆ Cross-application consistency and linking of master data by key mapping
- ◆ Ensuring sustained master data quality for the whole enterprise

Master data management in the context of big data streams

Use your governed and transactional data in IoT and other big data scenarios

Technology platform innovation...

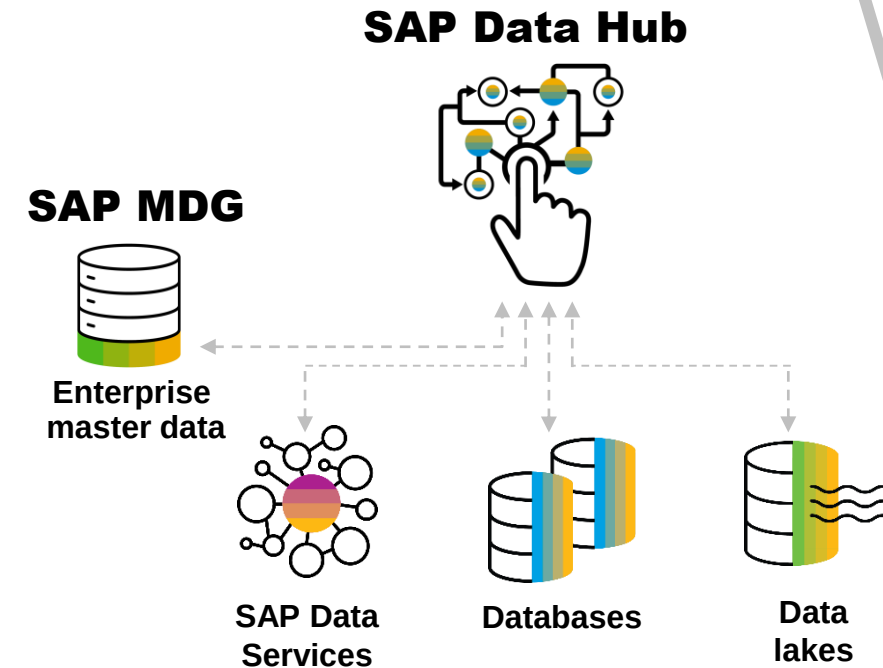
Leverage SAP HANA, SAP Data Hub and other SAP Enterprise Information Management capabilities to

- Rapidly integrate and leverage new data assets while ensuring (master) data compliance
- Understand real world performance in end-to-end IoT scenarios by mapping high volume data ingestions to trusted master data
- Create data insight using in-memory, graph & spatial processing, as well as orchestration services and machine learning

...to derive real business value*

Examples of the many possible scenarios:

- Business process innovation by linking IoT sensor data with asset and customer master data to enable usage based billing
- Analytics innovation by providing business process context of insights generated from data lakes to enable actionable decisions
- ...



*) Many scenarios are available today and with this topic being a major investment focus for SAP, continued expansion of these use cases is ongoing...

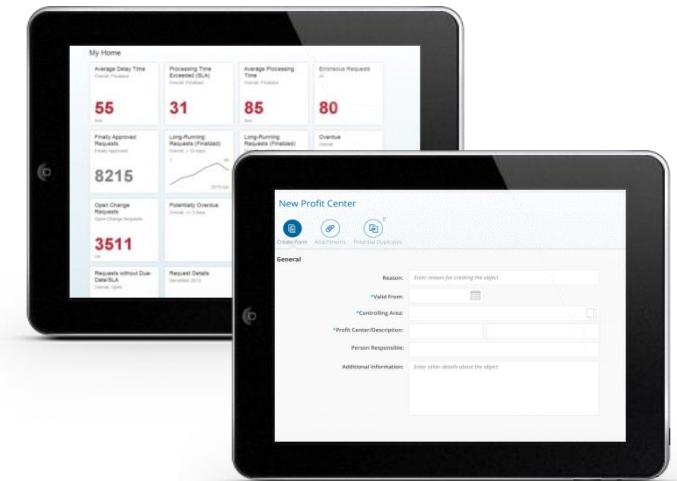
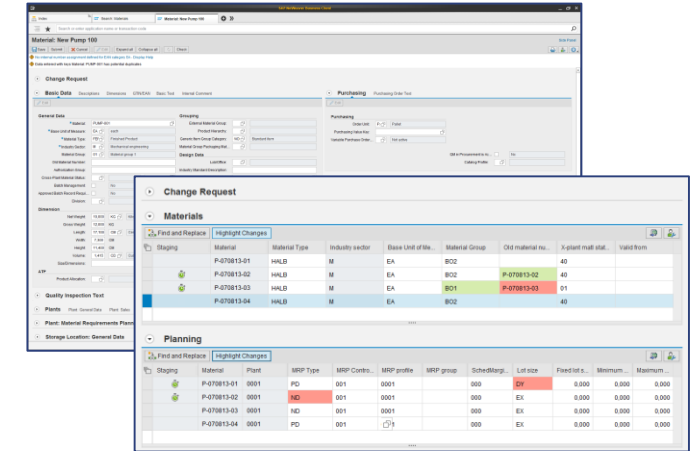
Summary

SAP Master Data Governance (MDG): the efficient way towards consistent and high quality master data – the foundation of your Digital Business

SAP MDG is the one single application that provides preconfigured, domain-specific master data governance as well as a flexible framework for custom data models and processes. This allows to de-centrally manage and consolidate, or centrally manage and distribute all master data for your company's complete system landscape.

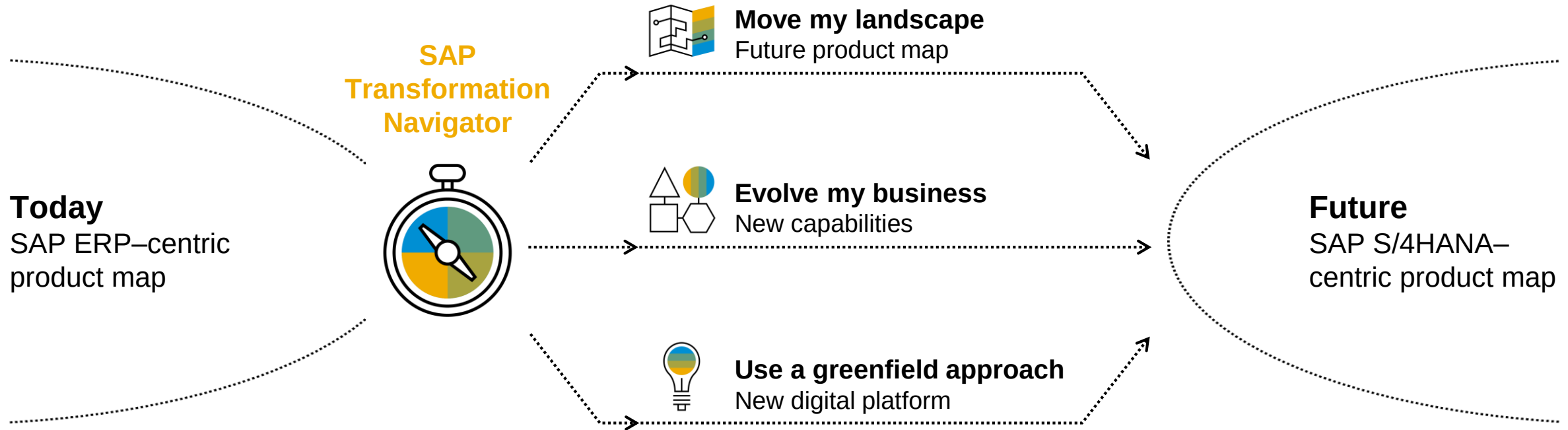
The clean master data from SAP MDG enables you to accelerate your enterprise software journey, and to enable new digital business models. For example...

- ... SAP MDG supports your system landscape simplification and move to the cloud with synchronized master data across on-premise and on-demand applications
- ... Leverage SAP MDG's harmonized master data and SAP's platform capabilities to connect transactional and IoT or other big data, and derive real business value
- ... Mobilize your business with simplified master data access and efficient scenarios for request, approval, or to monitor KPIs and trends
- ... MDG can support your SAP S/4HANA move: get experience with a controlled subset, ensure master data quality before the implementation and maintain quality after go live



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>.

Learn more

SAP customers and partners

- ▶ [SAP Road Maps](#)
- ▶ [SAP Community](#)
- ▶ [IT Planning Resources](#)
- ▶ [Innovation Discovery](#)
- ▶ [SAP Transformation Navigator](#)
- ▶ [SAP User Groups](#)
- ▶ [SAP Customer Connection](#)
- ▶ [SAP Master Data Governance in Our Public Web](#)
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