



SAP S/4HANA Road Map

September 2018

CUSTOMER

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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

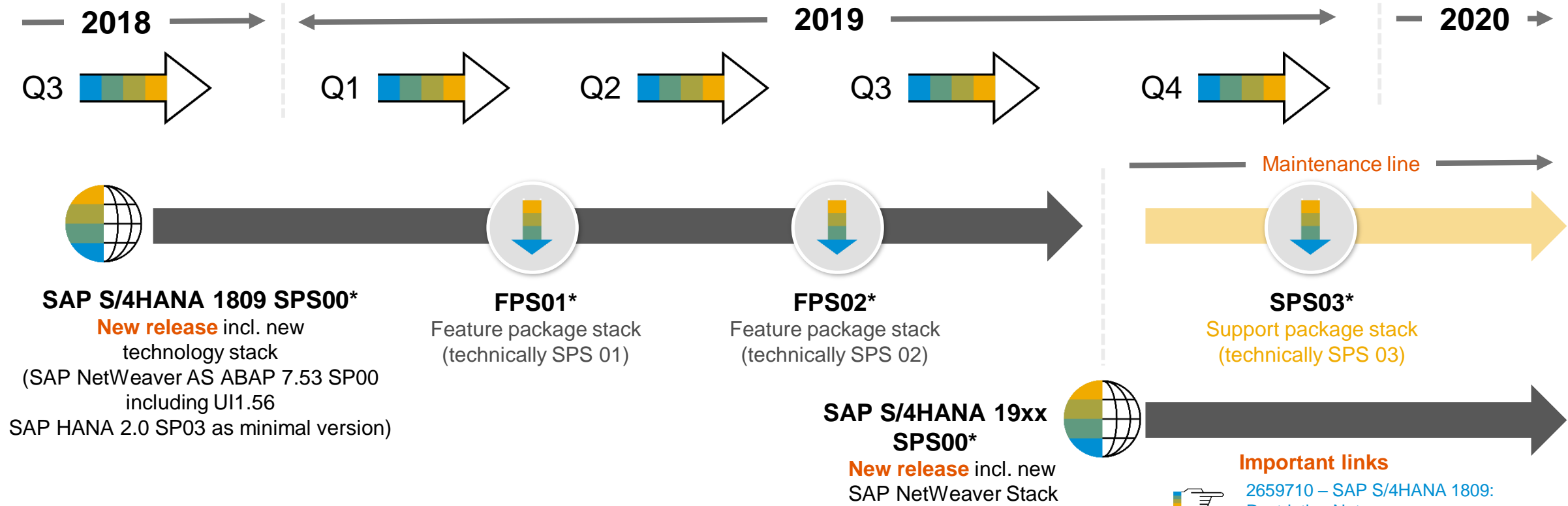
Product overview



SAP S/4HANA

Release strategy for 2018/2019 and definition of deliveries

SAP LABS PREVIEW



SAP S/4HANA 1809 SPS00*
New release incl. new technology stack
 (SAP NetWeaver AS ABAP 7.53 SP00 including UI1.56
 SAP HANA 2.0 SP03 as minimal version)

FPS01*
 Feature package stack
 (technically SPS 01)

FPS02*
 Feature package stack
 (technically SPS 02)

SAP S/4HANA 19xx SPS00*
New release incl. new SAP NetWeaver Stack

SPS03*
 Support package stack
 (technically SPS 03)

Important links

- [2659710 – SAP S/4HANA 1809: Restriction Note](#)
- [2655761 – Restrictions and recommendations regarding specific revisions of the SAP HANA database for use in SAP S/4HANA](#)
- [Release and maintenance strategy for SAP S/4HANA](#)

Support package stack for SAP S/4HANA 1809*

After general availability of SAP S/4HANA 1809, feature package stacks (FPS) and support package stacks (SPS) contain stabilizations bundled with corrections and legal changes. Customers benefit from this functionality as part of their maintenance fee. The first SPS of a new release can contain selected features and is labeled feature package stack (FPS) accordingly. Support package stacks are compiled periodically and made available on the [User Assistance Content Platform](#) (product information) and on [SAP Support Portal](#) (support information).

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

SAP S/4HANA 1809

Key innovations overview



Embedded transportation management

- Mixed pallet building and load optimization
- Real-world awareness – tour tracking
- Carrier invoicing through SAP Logistics Business Network



Supply chain

- aATP: Alternative-based confirmations
- Product allocation – calculate nonreserving availability



Industry to core – utilities

- Analytical insight and exception resolution in utilities billing and invoicing
- Analysis of meter reading



Industry to core – retail and fashion

- Merchandise management – empties in warehouse management integration
- Fashion and retail – enhanced management of "season"



Customer management

- Embedded service management (service core) with eliminated middleware, harmonized data models



Digital manufacturing

- Demand-driven visibility and interactive planning
- Visualize and support buffer positioning in demand-driven replenishment
- Capacity evaluation/adjustment for MRP controllers



Finance

- GR/IR reconciliation: Instant insight in a single dashboard
- Accruals management: Intelligent recommendations with help of machine learning



Sourcing and procurement

- Invoice automation with machine learning and invoice monitoring for exception handling
- Centralized purchase requisitions through hub and central contract management hub



Asset management

- Overview page for planner
- Technical object damage analysis
- Integration with SAP Asset Intelligence Network



Sales and distribution

- Determine the quotation-conversion probability using predictive analytics and machine learning
- SAP Fiori app "Track Sales Orders" with new functionalities and using natural language



Inventory management

- Predictive analytics/machine learning for decision support
- Posting goods receipt for production order



Quality management

- Manage quality tasks
- Manual recording and monitoring of defects
- Statistical process control



Extended warehouse management

- Enhanced SAP ERP integration with EWM
- New SAP Fiori apps for inventory counting and Packing outbound delivery
- Support IUID integration for A&D industry



R&D/engineering

- Variant configuration – multilevel; CPQ; classification
- Product marketability and chemical compliance



Migration cockpit

- Transferring data to SAP S/4HANA using staging tables
- Adjust the migration objects that are used with the object modeler

Product road map

- Recent innovations
- Planned innovations
- Product direction
- Product vision



Contents

Lines of business

- Sourcing and procurement
- R&D/engineering
- Asset management
- Manufacturing
- Supply chain
- Sales
- Service
- Finance
- Human resources

Industries

- Consumer industries
 - Agribusiness
 - Retail and fashion
 - Consumer products
- Discrete industries
 - Automotive, aerospace and defense, industrial machinery and components, high tech
- Financial services
 - Banking
 - Insurance
- Public services
 - Public sector
 - Higher education and research
 - Defense and security
- Energy and natural resources
 - Oil and gas
 - Utilities

Cross-topics

- Master data management
- Foundation and analytics
- Localization
- Extensibility
- Integration

Lines of business



SAP S/4HANA

LoB: Sourcing and procurement

Recent innovations

Operational purchasing

- SAP S/4HANA – enhanced with central purchase management capabilities
- Centralized approval for purchase orders in SAP S/4HANA



Reduce free-text items using machine learning with SAP S/4HANA

Propose a material group, using machine learning with SAP S/4HANA

- Situation handling for supplier confirmation and purchase requisition processing

Sourcing and contract management

- Enablement of SAP S/4HANA as central contract management hub with contract distribution
- Legal content management overview page in SAP S/4HANA

Invoice and payables management



Payment block – avoid loss of cash discount with machine learning in SAP S/4HANA

Procurement analytics

- Material price variance analytics – improved transparency
- Analytics for scheduling agreements in SAP S/4HANA
- Central purchase contract consumption

Integration



Integration of SAP S/4HANA with guided buying capabilities in SAP Ariba solutions

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2019 – Planned innovations¹

Operational purchasing

- Team purchasing and completion workflow
- Centralized approval of back-end purchase requisitions in SAP S/4HANA for central procurement



Conversational voice interfaces and machine learning

Sourcing and contract management



Comprehensive smart-contracting scenario that integrates with legal content assembly to generate, process, and archive legal content based on preapproved clauses and templates

- Auditing of procurement collaboration with blockchain
- Holistic supplier and category monitoring

Procurement analytics

- Analytics for SAP S/4HANA for central procurement – global purchase order spend and central purchase requisitions

Integration

- Established procurement extensions for building partner ecosystem in SAP S/4HANA

2020 – Product direction¹



Transform manual procurement processes in requisitioning, ordering and sourcing to system operated automatic processes based on machine learning and data prediction



Highly integrated internal and external collaboration accelerates and improves procurement business decisions

- Innovation and business value drive and determine supplier selection and relationship
- Transparent, real-time insight into supply-chain processes
- Inclusion of social media platforms and sentiment analysis in procurement analytics

2021 – Product vision¹



Robotics process automation (RPA) across procurement in combination with artificial intelligence



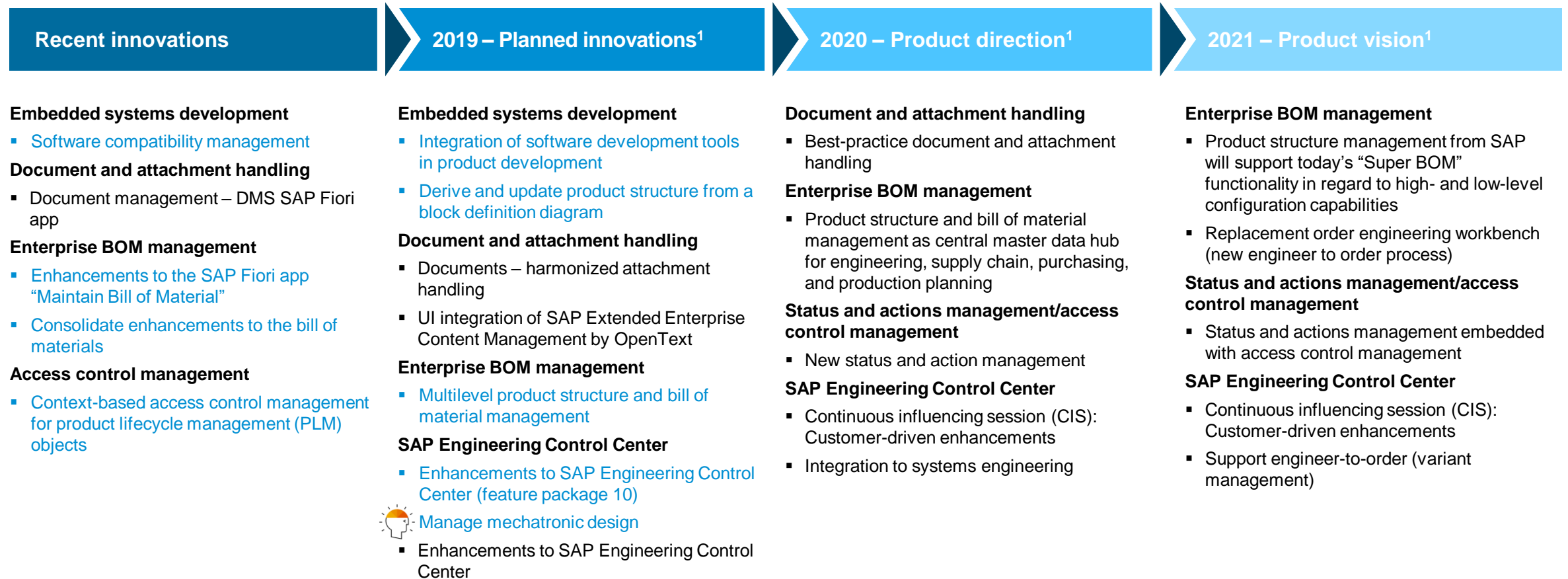
Smart workflow to automatically assign tasks and exceptions to responsible person



Digital assistant as coworker to provide insight-to-action proactively

SAP S/4HANA

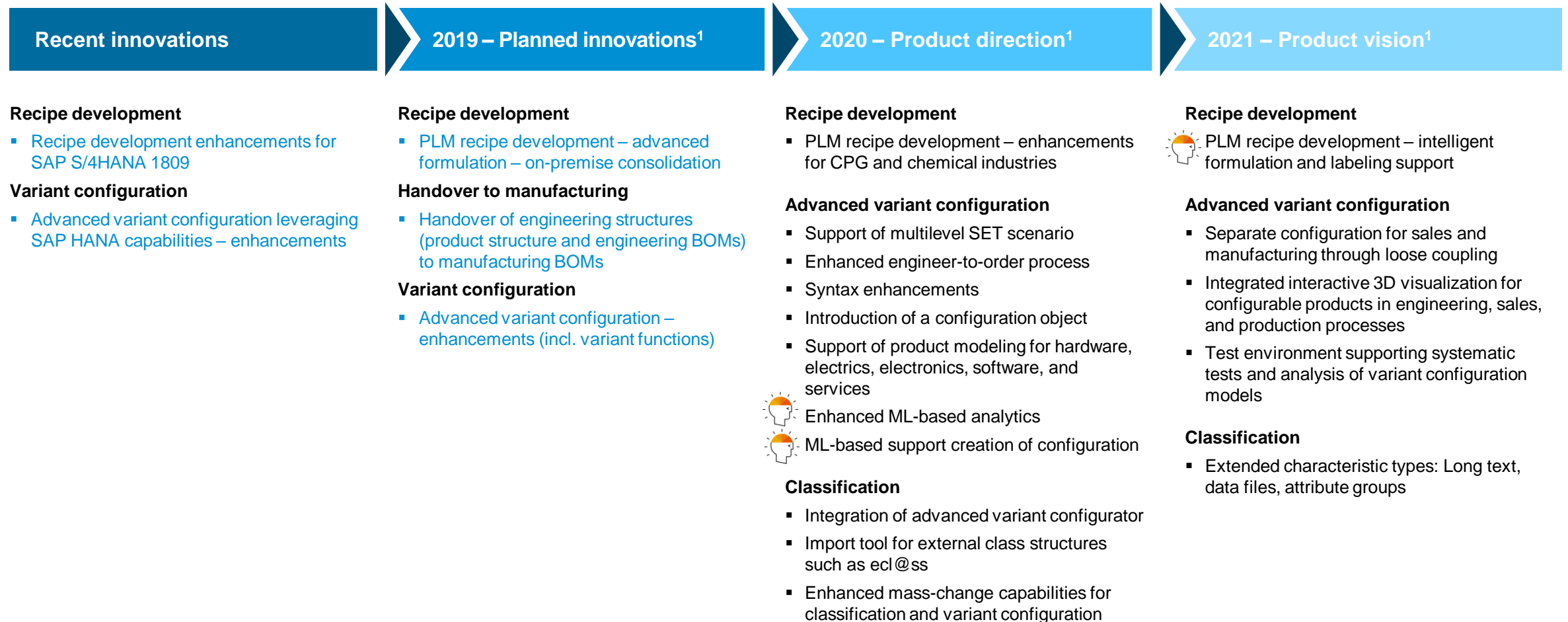
LoB: R&D/engineering (1/5) – discrete and process industries (1)



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SAP S/4HANA

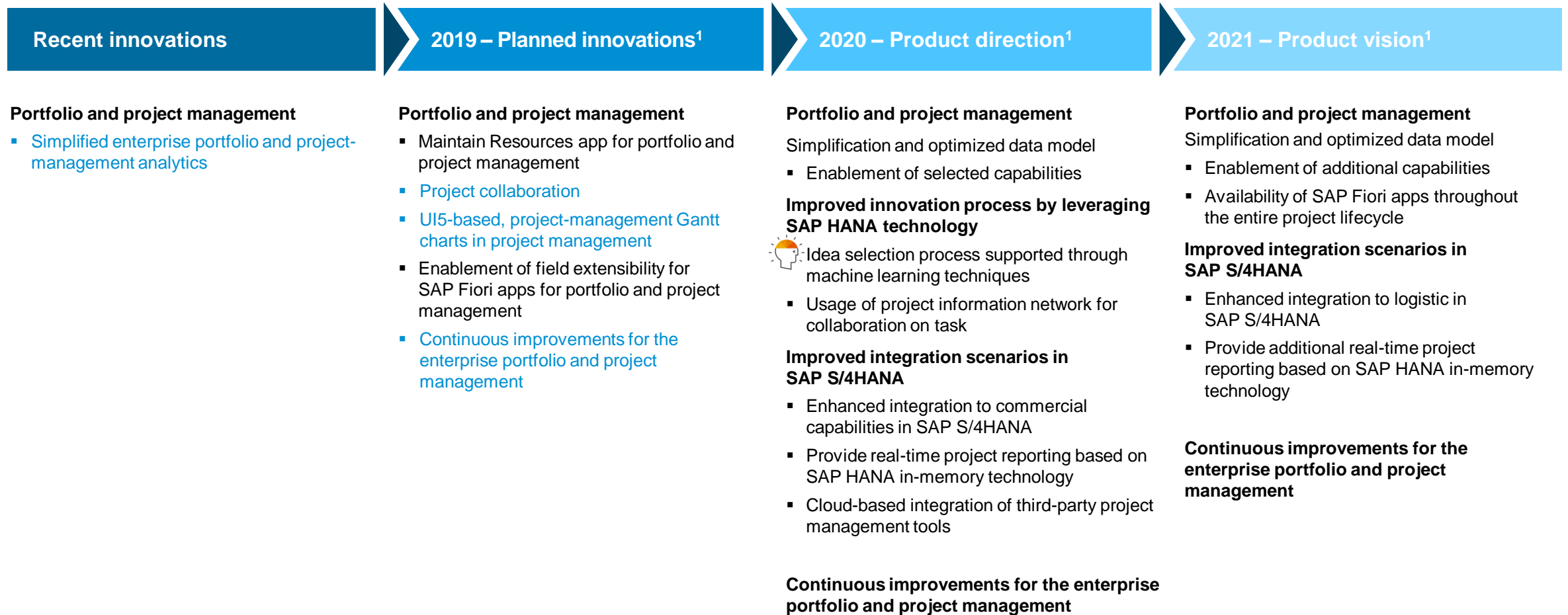
LoB: R&D/engineering (2/5) – discrete and process industries (2)



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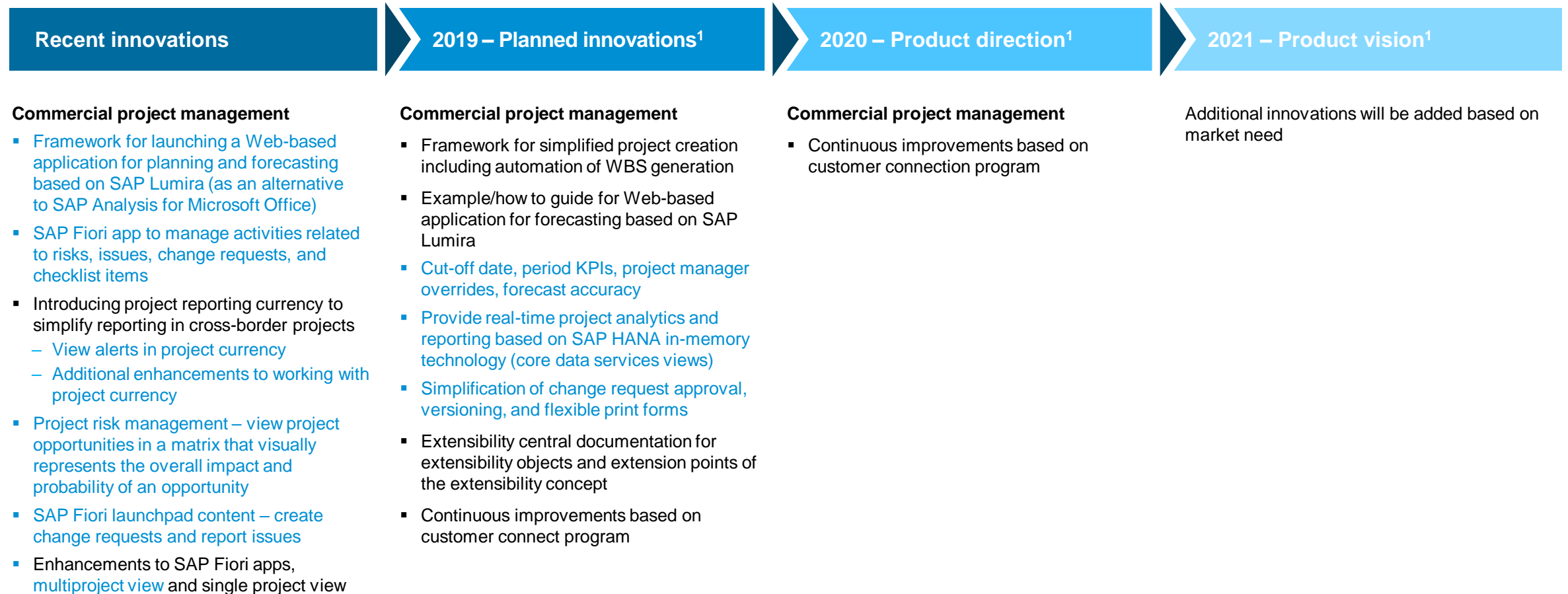
LoB: R&D/engineering (3/5) – enterprise portfolio and project management (1)



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LoB: R&D/engineering (4/5) – enterprise portfolio and project management (2)



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LoB: R&D/engineering (5/5) – product compliance

Recent innovations

Product marketability

- Straightforward, ready-to-run solution with standardized data model for product marketability
 - Comprehensive integration in order-to-cash processes with embedded product compliance
 - Implementation of marketability regulations as a self-contained processing and delivery unit
-  Intelligent compliance management with machine learning capabilities

2019 – Planned innovations¹

Product marketability

- Integration with sales-order fulfillment: analyze and resolve issues
- Integration into the product master
- Customer-specific exceptional sales order processing
- Integration into delivery processing
- Integration into specification database
- Extended composition management

Dangerous goods management

- Text-based dangerous goods classification
- Dangerous goods checks and documents in sales order processing
- Dangerous goods checks and documents in delivery processing
- Dangerous goods data provided using EDI
- Extended compliance information app

Safety data sheet (SDS) and label management

- SDS management
- Integrated SDS check and shipment in delivery
- Manual and subsequent shipment of SDS

2020 – Product direction¹

Product marketability

- Enhance marketability checks by substance volume tracking
- Purpose-driven increase of regulatory coverage together with partners
- Insight into the business by combining logistics with compliance analytics and proposing actions
- Simplified processing of regulatory updates

Dangerous goods management


- Dangerous goods checks and documents in transport management
- Dangerous goods checks and documents in cloud warehouse management
- Standardized data model for product data

Safety data sheet and label management

- SDS check and request in sales order
- Extended compliance information app
- End-to-end integration with SAP EHS Regulatory Documentation OnDemand

2021 – Product vision¹

Product marketability

-  Extended automation
 - Integration with target-driven recipe development
 - Partner enablement for compliance requirements using SAP Cloud Platform and API hub
 - Extended substance volume tracking


Dangerous goods (DG) management

- Detailed classification for DG regulations
- Additional DG checks

-  Extended automation

Safety data sheet and label management

- Standardized data model for primary and secondary data

-  Extended automation

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LoB: Asset management (1/2)

Recent innovations

Maintenance execution

- SAP Fiori app “Maintenance Planning Overview”
- Object page enhancements
 - Task list
 - Task list and operation
 - Order
 - Order and operation
 - Notification
- Technical object damage analysis for SAP Enterprise Asset Management

Analytics

- Business warehouse (BW) extractors for technical objects, preventive maintenance, maintenance orders, and notifications
- Business warehouse (BW) extractors for measurement points, measurement documents, and maintenance costs

Integration

- Integration between SAP Enterprise Asset Management and asset central (SAP Cloud Platform)

2019 – Planned innovations¹


Maintenance execution

- Confirmation for multiple maintenance orders
- Basic permit-to-work process in maintenance orders
- Object page for maintenance plans
- Object page for maintenance items

Analytics

- Cost analysis for SAP Enterprise Asset Management

Integration


-  SAP S/4HANA Asset Management for resource scheduling – automatic planning, technician planning, additional view for graphical scheduling board

2020 – Product direction¹

Maintenance execution

- SAP Fiori apps for maintenance technicians and planner to manage internal refurbishment activities
- SAP Fiori app for recording installation and dismantling of equipment


Integration

-  SAP S/4HANA Asset Management for resource scheduling – intelligent scheduling and collaboration
- New maintenance order capability for lean service procurement (integration into procurement)
- New maintenance order capability for capital investment management processes (integration into project management)

2021 – Product vision¹

Maintenance execution

- New planned maintenance order capability for improved material planning and procurement
- New maintenance order capability for inspection processes

-  Machine learning capabilities in maintenance execution (such as failure mode analysis, activity and spare part recommendation)

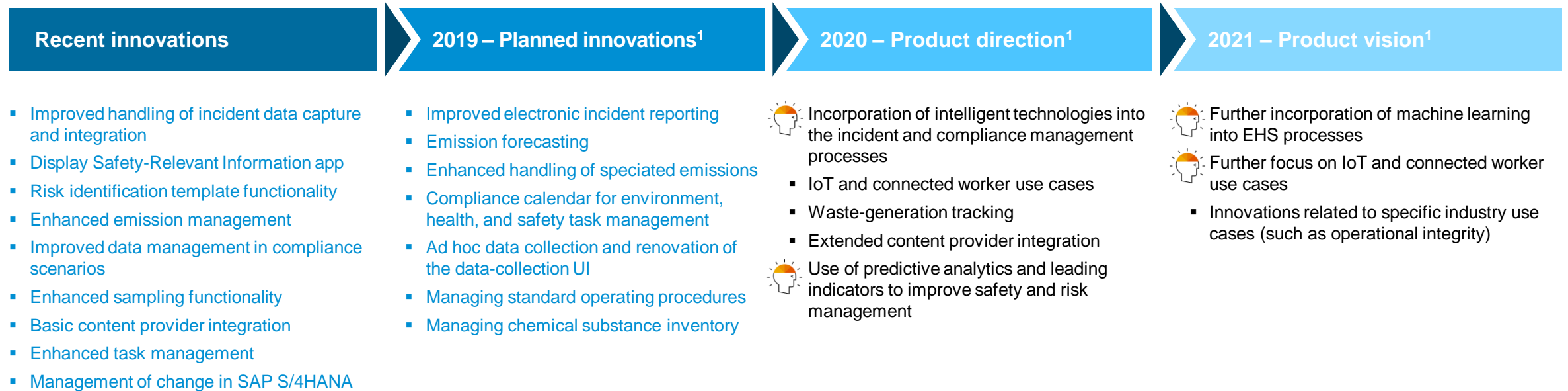
Analytics

- Planned and estimated maintenance cost management
- Analytical application to visualize important asset management–specific KPIs

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SAP S/4HANA

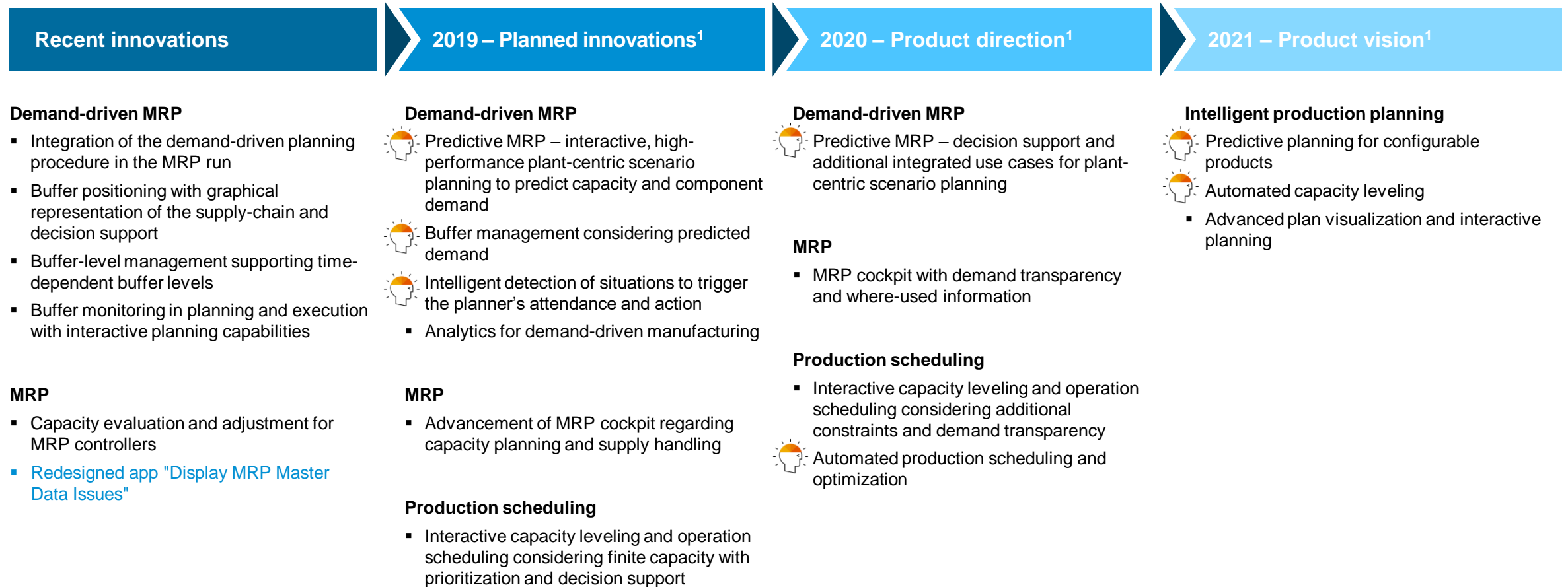
LoB: Asset management (2/2) – EHS



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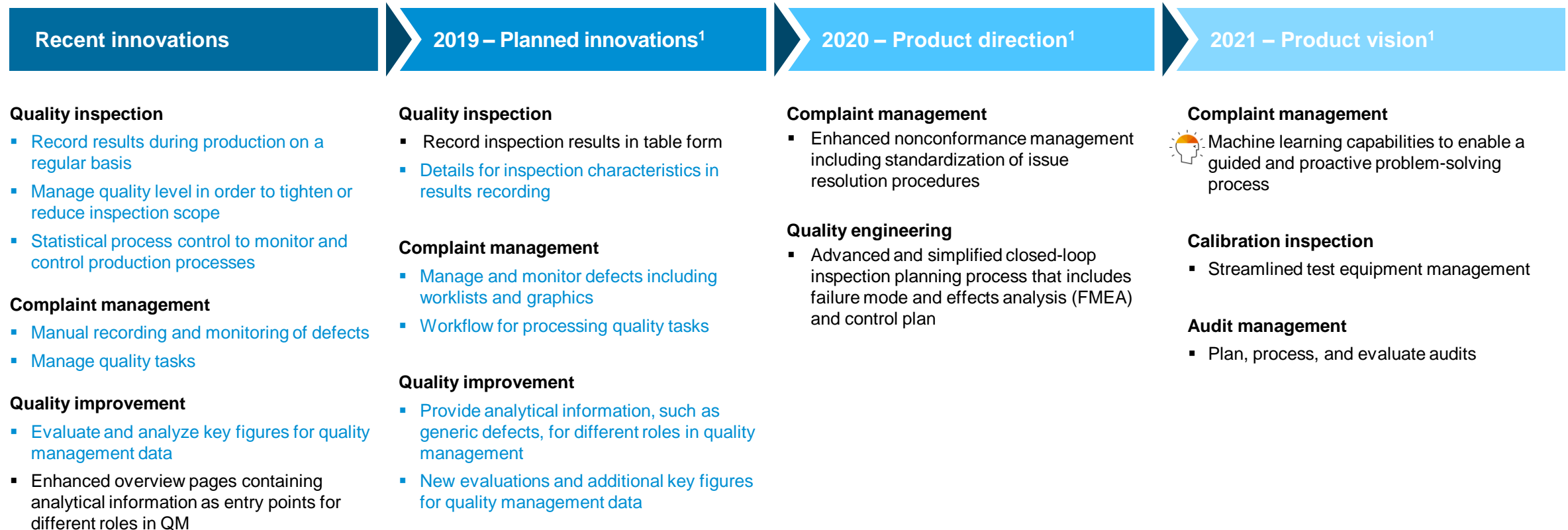
LoB: Manufacturing (1/3) – production planning



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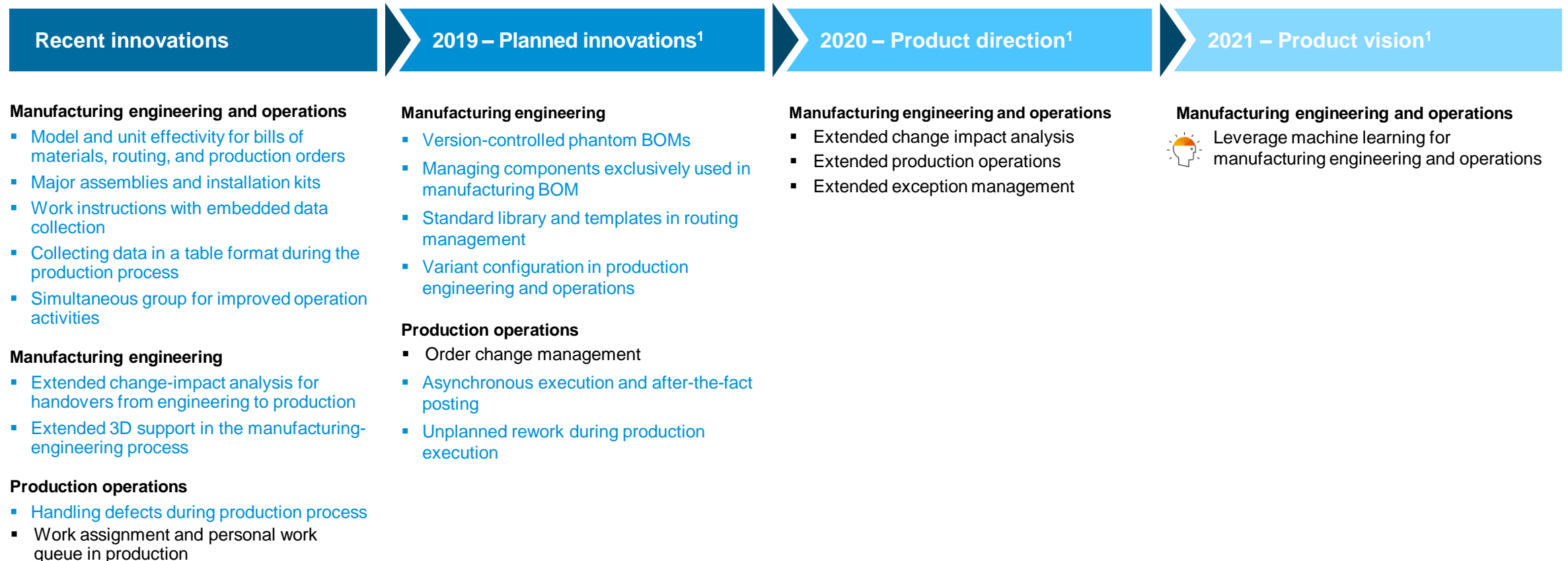
LoB: Manufacturing (2/3) – quality management



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LoB: Manufacturing (3/3) – manufacturing engineering and production operations



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LoB: Supply chain (1/5) – inventory management – batch management – kanban


Recent innovations

2019 – Planned innovations¹

2020 – Product direction¹

2021 – Product vision¹

Predictive analytics/machine learning

-  Include predictive analytics in process monitoring for decision support

Goods receipt process

- Process and usability improvements through posting of goods receipts for production orders
- Improvements to process and usability through posting of goods receipts without reference
- Further optimization of goods receipt through cross-process feature enhancements based on the SAP Fiori UX
- SOAP API for sending and receiving "goods receipt" notes

Catch weight management CWM

- Further removal of selected restrictions on CWM with respect to the official restriction note

Batch management

- Batch management on plant level with unique batch IDs on material level

Goods receipt process

- Enhancement of the goods-movement process in support of "split valuation"
- Further optimization of goods-receipt process supporting mass postings of POs with the same supplier

Inventory analytics

- Overview page to support the inventory analyst in daily business by presenting selected and relevant KPIs and charts at a glance
- Inventory KPI analysis with follow-up actions on obsolete stock


Batch management

- New OData API for batch (read, create, update)

Kanban

- New SAP Fiori app for kanban signal processing on mobile devices
- OData API for kanban control cycle (read, create, update)
- OData API for production supply area (read, create, update, delete)

Predictive analytics/machine learning

-  Real-time stock accuracy and process efficiency improvement by early detection of slow or nonmoving stock


Batch management

- Improved user experience for batch information cockpit


Kanban

- Live analytical reporting on kanban events
- Simplified kanban stock transfer with embedded extended warehouse management
- Dynamic kanban control cycle dimensioning

Intelligent ERP

-  Automation of inventory related processes based on deep analytics supporting intelligent and collaborative scenarios as well as decision support

Kanban

-  Intelligent kanban alerting and situation management

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SAP S/4HANA

LoB: Supply chain (2/5) – available to promise (ATP)

Recent innovations

Product allocation

- Display and analyze product-allocation availability situation
- Support for downloading and uploading product allocation characteristic value combinations and related time series in Microsoft Excel (file format XLSX)
- Use custom and standard fields as characteristics in specific product allocation objects for the stock transport order



Automatically reorganize product allocation planning data and assignments after deletion, deactivation, or reactivation of characteristic value combinations

- Enable download and upload of product location to product-allocation-assignment data in file format

Alternative-based confirmations

- Initial determination of best plant to confirm a newly created sales order requirement

Back-order processing (BOP)



Automatically trigger an alternative back-order processing run when a confirmation strategy is violated

Release for delivery

- Visualize dependency on product allocation and delivery groups
- Consider stock transport orders

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2019 – Planned innovations¹

Product allocation

- Calculate a feasible confirmation by considering multiple product-allocation objects as alternative sources of supply
- Enable customers to define characteristic value groups for product allocation
- Integration of capacity/production based product allocation check in ATP standard check (PAL after PAC)

Alternative-based confirmation

- Enable partial confirmations in multiple plants
- Support reevaluation of alternatives in back-order processing

Back-order processing

- Use custom and standard fields for sorting and filtering

General

- OData API – simulative availability check including product availability and product allocations

2020 – Product direction¹

Product allocation

- Allocation check with innovative consumption strategies considering multiple allocation plans

Alternative-based confirmation



Smart material substitution (1:1) to determine the best alternative material to fulfill a requirement

Back-order processing

- Enable flexible aggregation in the BOP monitor for the user to consume the mass data of a BOP result at one glance.

General

- Explain the reason for a specific availability check result in ATP explanation and monitoring

2021 – Product vision¹

Back-order processing

- Interactive mass-change of confirmations

Alternative-based confirmation

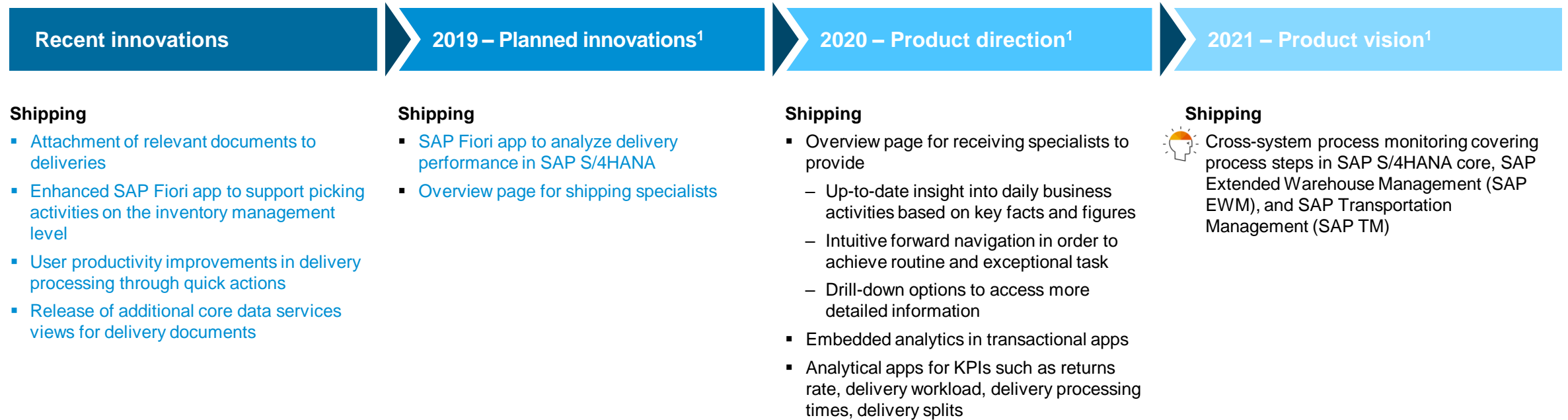


Intelligent selection of best confirmation alternative on order level

- Flexible definition of hard constraints for alternative selection

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LoB: Supply chain (3/5) – logistics execution



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SAP S/4HANA

LoB: Supply chain (4/5) – extended warehouse management

Recent innovations

SAP Extended Warehouse Management with SAP S/4HANA*

- **New SAP Fiori apps**
 - Physical inventory counting
 - Pack outbound delivery
- **Enhanced SAP Fiori apps**
 - Process outbound deliveries
 - Change inbound deliveries
 - Product master maintenance
- **Improved integration to ERP**
 - Synchronous stock posting (with IM)
 - Global batches with deactivation for dedicated plants
 - Reuse of ERP delivery number in EWM
 - Integration to SAP GBT
 - Support IUID functionality in aerospace and defense industry
 - Visibility of ERP storage location in EWM stocks
- **Reduce total cost of ownership and total cost of investment**
 - New monitor nodes and methods
 - Change logs for storage bins
 - Mass creation of warehouse products and storage type data
 - ABC analysis

2019 – Planned innovations¹

SAP Extended Warehouse Management with SAP S/4HANA*

- **Deployment of decentralized extended warehouse management on the SAP S/4HANA software platform**
- **Simplified integration between extended warehouse management and quality management without using inspection rules**
- **Feature parity with LE warehouse management**
 - Automotive extensions
 - Quality management enhancement



Material flow system enhancements and robotics integration framework

- **Enhanced warehouse-optimization capabilities**
- **Integration to SAP Global Track and Trace**
- **Enhanced analytics for SAP Extended Warehouse Management**
- **Extended warehouse management customer connection**

2020 – Product direction¹

SAP Extended Warehouse Management with SAP S/4HANA*

- **Automotive extensions**
- **Integration to mill industry by supporting batch-specific unit of measure**
- **New and enhanced scenarios in the area of SAP Transportation Management (SAP TM) integration**
- **Additional IoT scenarios**
 - Enhanced analytics for SAP Extended Warehouse Management



2021 – Product vision¹

SAP Extended Warehouse Management with SAP S/4HANA*

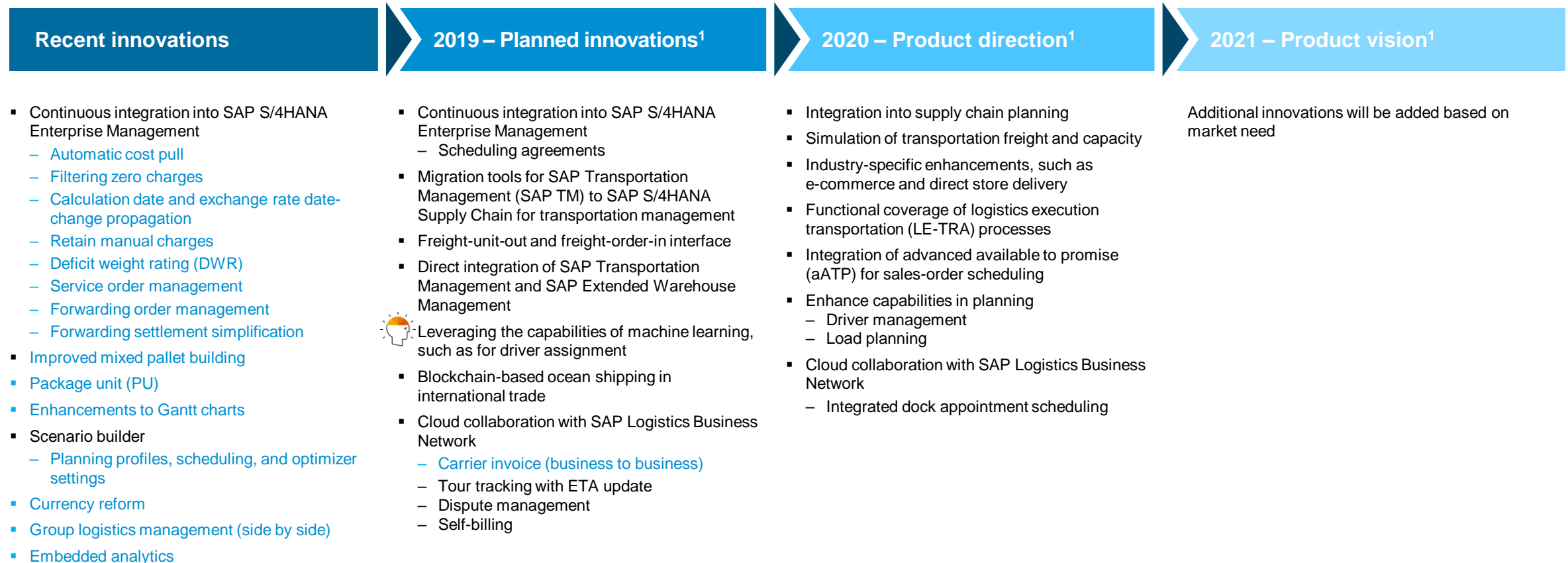
- **Industry-specific scenarios such as retail**
- **Based on customer feedback**

*SAP S/4HANA Supply Chain for extended warehouse management

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LoB: Supply chain (5/5) – transportation management





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LoB: Sales (1/4)

Recent innovations

Sales order management

-  Ability to quickly create a subsequent sales order from a sales quotation using natural language (SAP CoPilot) (SAP S/4HANA)
 - Execute mass changes for sales orders on the header level in SAP S/4HANA
 - Approval workflow for credit memo requests in SAP S/4HANA
 - Track sales orders in SAP S/4HANA – display fulfillment issues
-  Track sales orders using natural language (SAP S/4HANA)
 - Resolve payment card issues in SAP S/4HANA – display log
 - Maintain item proposals for sales documents in SAP S/4HANA (SAP Fiori for internal sales representatives)

Sales, returns, and refund management

- Accelerated returns processing in SAP S/4HANA – return third-party products to suppliers, new ship to supplier follow-up activity and inspection document in the process flow

2019 – Planned innovations¹

Sales order management

- Manage duplicate orders in SAP S/4HANA
- Enablement of mass changes for sales order items

Billing and invoicing


- Preliminary billing documents in SAP S/4HANA

Process automation through workflow

- Approval status on sales document item level
- Approval workflow for sales contracts
- Approval workflow for sales plans

2020 – Product direction¹

Intelligent digital core

-  Machine learning and natural language processing to support the sales and billing department for a higher level of automated processes and smarter analytics

Efficiency of sales operations

- Improved sales efficiency by provisioning of a low-touch order and contract management

Process automation through machine learning

-  Create sales orders from unstructured data

User experience for professional users

- SAP Fiori app for sales order (create/change) enhancements
- SAP Fiori app for sales quotation (create/change)
- SAP Fiori app for free goods display

Process automation through workflow

- Approval workflow for debit memo requests
- Approval workflow for sales inquiries

2021 – Product vision¹

Sales order management

- Multiple delivery block handling
- Truckload optimization with SAP Transportation Management

User experience for professional users

- SAP Fiori app for credit memo request (create/change)
- SAP Fiori app for debit memo request (create/change)
- SAP Fiori app to track the customer returns process
- SAP Fiori app for customer returns without reference (create/change)

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SAP S/4HANA

LoB: Sales (2/4)



Recent innovations

2019 – Planned innovations¹

2020 – Product direction¹

2021 – Product vision¹

Analytics

-  Monitor your delivery performance using predictive analytics in SAP S/4HANA – in-time supply of procurement processes for the creation of outbound deliveries
- Compare planned and actual sales data in SAP S/4HANA
-  Determine the quotation-conversion probability using predictive analytics and machine learning in SAP S/4HANA
- Maintain sales planning data for profit centers in SAP S/4HANA
- Release core data services views to customers in SAP S/4HANA

Billing and invoicing

- Convergence of customer billing data – Microsoft Excel upload in SAP S/4HANA
- Enable periodic “billing document creation” runs through relative date selection (SAP S/4HANA)
- Sales billing and invoicing in SAP S/4HANA – perform split analyses

Analytics

- Integration with SAP Analytics Cloud
- Provisioning of sales KPIs for SAP Analytics Cloud content
- Continuous enhancement of embedded analytics contents for sales based on new transactional innovations

Billing and invoicing

- Manual invoicing

Analytics

- Provisioning of further sales KPIs
- Customer returns analytics

Billing and invoicing

- Renovated “over the counter” sales using manual invoicing with logistics integration
- Integration to SAP Transportation Management and international trade management

Price management

- Price planning

Natural language interaction in sales processes

- Daily briefing for the sales manager
- Show me and update action for sales documents

Billing and invoicing

- Billing self-service portal
- Billing fully localized

Price management

- Price optimization
- Central pricing solution for the intelligent suite

Natural language interaction in sales processes

- Query of sales KPIs and drill-down
- Creation of sales documents without reference

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LoB: Sales (3/4)

Recent innovations

2019 – Planned innovations¹

2020 – Product direction¹

2021 – Product vision¹

Integration

- Integration of SAP digital payments add-on with SAP S/4HANA Sales – delete credit card authorizations and credit card authorization history
- OData API for sales orders (create, update, delete) (SAP S/4HANA)
- OData API for sales orders without charge (create, read, update, delete) (SAP S/4HANA)
- OData API for sales contracts (create, update, and delete) (SAP S/4HANA)
- OData API for sales quotations (create, update, and delete) (SAP S/4HANA)
- OData API for return orders (create, update, delete) (SAP S/4HANA)
- OData API for sales documents – credit block (read, check, release, reject) (SAP S/4HANA)
- OData API for credit memo request (create, update, delete) (SAP S/4HANA)
- OData API for debit memo request (create, update, delete) (SAP S/4HANA)
- OData API for customer material information records (create, update, and delete) (SAP S/4HANA)
- OData API for delivery documents – credit block (read, check, release, reject) (SAP S/4HANA)
- Release core data services views to customers in SAP S/4HANA

Integration

- OData API for sales inquiries (create, update, and delete) (SAP S/4HANA)
- SOAP and OData API for billing document requests (create, read, delete, and reject) (SAP S/4HANA)
- SOAP and OData API for billing documents (create, read, and cancel) (SAP S/4HANA)
- Integration of SAP Commerce Cloud with SAP S/4HANA Sales
- Integration of SAP Sales Cloud with SAP S/4HANA Sales (enhancements)

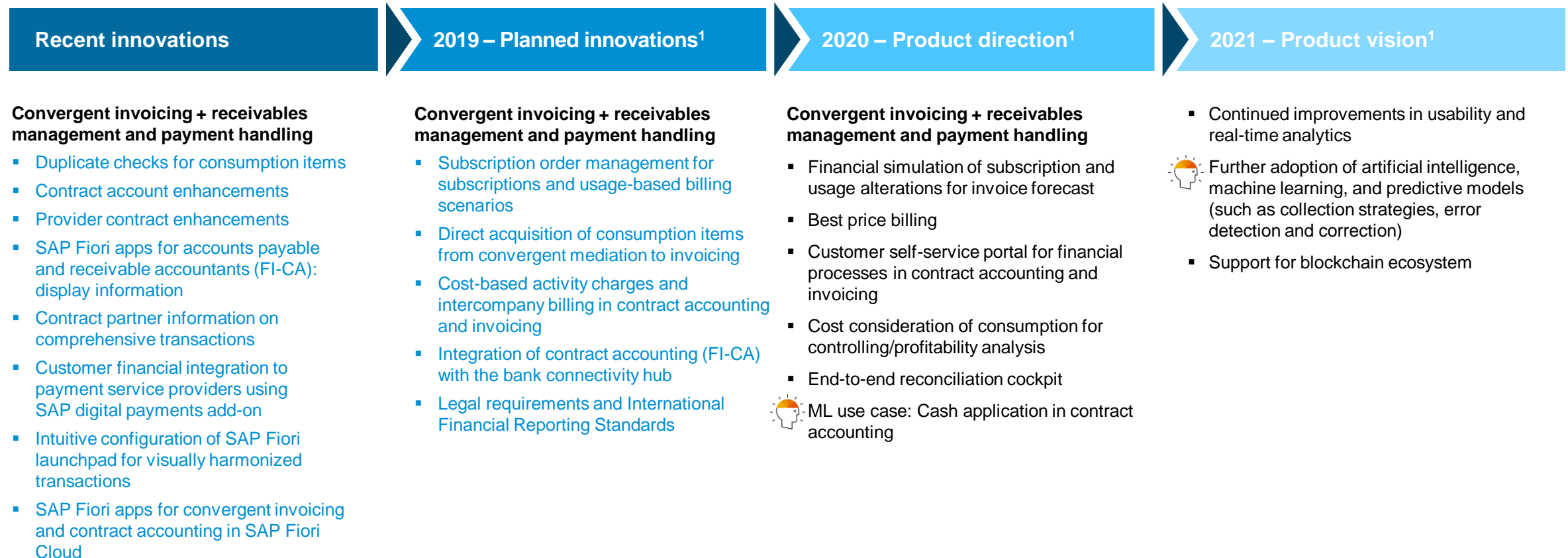
Integration

- Integration of SAP Marketing Cloud with SAP S/4HANA Sales
- Ariba Network seller-side integration for SAP S/4HANA

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LoB: Sales (4/4) – subscription billing and revenue management



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SAP S/4HANA

LoB: Service – customer management


Recent innovations

SAP S/4HANA for customer management*

- Service management
 - Expense items
 - Configurable products
 - Solution quotation with product bundles
- Sales force automation
 - Activity/task/appointments/calendar
 - Lead
 - Opportunity
- Multichannel customer interaction mgmt.
 - Sales order entry using interaction center
- Migration support
 - Table extensibility for SAP S/4HANA for customer management (application enhancement tool)
 - Hybrid deployment with SAP CRM
 - Readiness check


2019 – Planned innovations¹

SAP S/4HANA for customer management

- Service management
 - Field service management integration
 -  SAP Leonardo integration for ticket categorization
- Service contract management
- In-house repair management
- Complaints management
- Returns management
- Analytics and monitoring
 - Analytic VDMs for customer analytics
 - Service fulfillment: analyze issues
- System consolidation
 - SAP Fiori shell integration and SAP Fiori roles
 - Merge add-on into SAP S/4HANA core
- Migration support
 - Migration of service master data



2020 – Product direction¹

SAP S/4HANA for customer management

- Service plan management
- Skills management
- Tools management
- Service business management
- Service projects / installations
- Warranties and claim management
- Service contract management
 - Change processes for service contracts
- Business solution contract
 - Solution contract for products and services and projects and subscriptions
 - Change processes
 - Contract cockpit
 - Controlling integration
 - CallidusCloud solution integration
- Analytics and monitoring
 - Service management overview
 -  Intelligent analytics: Issue scoring, predictive margin

2021 – Product vision¹

SAP S/4HANA for customer management

- Digital and digitalization of assets
- Business solution contract
 - Revenue recognition
 - Contract signature in blockchain
 - Integration with entitlements management solution
 - Integration to legal contract document in SAP Contract Lifecycle Management (CallidusCloud solutions or legal content management system)
- Analytics and monitoring
 - Service funnel
 -  Intelligent analytics
 -  Intelligent unstructured text search
 - Sentiment search

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*SAP S/4HANA for customer management 2.0 is an add-on to SAP S/4HANA 1809 FPS00

SAP S/4HANA

LoB: Finance (1/3)

Recent innovations

Accounting

- Purchase order accruals

Leveraging soft close and prediction

- Accounting for incoming sales orders
- First commitment scenarios

Parallel valuation

- Multiple currencies in follow-on processes

Profitability

- COGS split based on actual cost components
- Statistical sales conditions

Financial planning

- Plan data allocations reworked to update new universal planning persistency
- Connectivity of SAP Analytics Cloud to an on-premise planning environment

Business reporting content


- Enhancements for flexible hierarchies

SAP S/4HANA consolidation


- Legal consolidation
- Plan data consolidation
- Increased level of detail in consolidation data
- Intercompany reconciliation report
- External system integration

2019 – Planned innovations¹

Accounting

- Further scenarios for universal allocation
-  Machine learning for accruals management

Leveraging soft close and prediction

- Orchestrating entity close with advanced financial close
-  Predictive journal entries for purchasing processes

Parallel value flow

- Further enablement of multiple currencies

Profitability

- First scenarios for top-down distribution based on the universal journal

Financial planning

- Cockpit to manage financial plan data

Organizational change

- Impact analysis

SAP S/4HANA consolidation

-  Matrix consolidation
- Automated consolidation of investments
- Group structure and ownership manager
- Multiple subgroup currencies
- Integration into advanced financial closing
- Integration scenarios with planning applications
-  Advanced intercompany reconciliation
-  Intelligent data validation

2020 – Product direction¹


Accounting

- Further scenarios for accrual management
- Subsequent implementation of currencies
- Time-dependent tax

Accounting standards

- Adoption of future legal requirements of accounting principles

Leveraging soft close and prediction

-  First prediction scenarios for 3rd-party integration
- Integration of top-down and bottom-up prediction

Profitability

- Further scenarios for profitability based on universal journal


Financial planning

- Integration with SAP Integrated Business Planning for sales and operations

Business reporting content

- Value chain reporting

SAP S/4HANA consolidation

- Continuous group reporting
- Restatements
-  Automated interunit profit elimination in inventory
- Knowledge workspace for finance
- Finance assistant

2021 – Product vision¹

Leveraging soft close and prediction

-  Early predictive insight into business trends

Parallel value flow

- Enhance multiple valuation and currencies as basis for consolidation

Organizational change

- Orchestration change cockpit

SAP S/4HANA consolidation

- Migration assistant
- Confidence information in reports
- Guided analytics

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SAP S/4HANA

LoB: Finance (2/3)

Recent innovations

Treasury and risk management

- Basic coverage of legislations in foreign currency hedge management and accounting with U.S. GAAP

Central finance

- Improvements and simplifications for onboarding and operations
- Finance data hub for consolidation

Integration with business networks

- Cost center integration with SAP SuccessFactors Employee Central and SAP SuccessFactors Employee Central Payroll

Real estate

- Integration with legal content management

Cash management

- Enhance the liquidity forecast through integration of real estate data
- Snapshot of historic cash position report
- Bank fee importing and reporting
- Correspondence for bank account management

2019 – Planned innovations¹

Treasury and risk management

- Enhancement of treasury reporting capabilities
- Expand coverage of legislation in foreign currency hedge management and accounting for U.S. GAAP

Central finance

- Enable cross-industry scenarios
- Extended central-payment processing for accounts payable and receivable
- Indirect tax reporting
- New capabilities for central projects
- Improvements and simplifications for onboarding and operations

Real estate

- Optimizations for high-volume processes
- Lease questionnaire
- Integration of Ariba Network for procurement of real estate services

Cash management

- Liquidity planning with SAP Analytics Cloud
- Cash pooling with multiple layers
- Trade request triggered by cash manager

Payments

- Advanced payment factory capabilities

2020 – Product direction¹

Digital transformation with contract accounting

- Integration of SAP Bank Communication Management

Treasury and risk management

- Adoption of future legal requirements
- Treasury analytics

Central finance

- Central closing activities including soft close and prediction
- Integration into advanced financial closing
- Additional central processes
- Further financial reporting scenarios

Real estate

- Machine learning to optimize the real estate process

Cash management

- Bank relationship dashboard
- Increase automation of bank account management with electronic bank account management (eBAM)

Integration with business networks

- Comprehensive integration scenarios with SAP Ariba solutions, SAP Fieldglass solutions, SAP SuccessFactors solutions, and SAP Concur solutions

2021 – Product vision¹

Digital transformation with contract accounting

- Automation of the service-to-cash processes by leveraging machine learning and predictive models

Treasury and risk management

- Intelligent treasury

Real estate

- Digitalize the entire building lifecycle

Cash management

- Intelligent cash management

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SAP S/4HANA

LoB: Finance (3/3) – extensions to the digital core

Recent innovations

Adoption of legal changes in revenue accounting

- Functional round offs for IFRS 15 and ASC 606
- Improved support for disclosures

Leverage SAP Cloud Platform for finance

- SAP RealSpend – anomaly detection
- Smart alerting in SAP Financial Statement Insights
- SAP S/4HANA Cloud for finance for credit integration: Integration of additional credit agencies

Leverage SAP Cloud Platform for treasury

- Integration of trading platform 360T for inbound and outbound services

Leverage SAP Cloud for Real Estate for corporate real estate management

- Visual workspace management

Leverage SAP Cloud Platform for consolidation

- Enhanced data collection for nonfinancial measures and nonintegrated subsidiaries

2019 – Planned innovations¹

- Adoption of legal changes in revenue accounting
 - Increase automation for meeting IFRS 15 or ASC 606 requirements

Leverage SAP Cloud Platform for finance

- Broaden functionality of machine learning in finance operations processes with SAP Cash Application
 - Application for goods receipt and invoice receipt monitor
 - SAP digital payments add-on – self-service integration for certified payment service providers
 - SAP digital payments add-on and enablement of additional payment-service provider
 - Bank connectivity supporting contract accounting processes
 - Virtual credit card

Leverage SAP Cloud Platform for treasury

- Headquarters subsidiary scenario for internal deals
- Cash request scenario

Leverage SAP Cloud for Real Estate for corporate real estate management

- Digital twin – master data extensibility
- Further integration of partner cloud solutions

Digital twin: Object-related information sharing

- Integration of IoT scenarios
 - Integration of Ariba Network
 - Integrate to facility management (EAM)

Leverage SAP Cloud Platform for consolidation

- Disclosure management
- Intelligent data mapping leveraging machine learning

2020 – Product direction¹

Adoption of legal changes in revenue accounting

- Additional IFRS requirements

Leverage SAP Cloud Platform for finance

- Credit management cockpit
- SAP RealSpend – multidimensional cost reporting

2021 – Product vision¹

Adoption of legal changes in revenue accounting

- Advanced revenue analytics based on machine learning

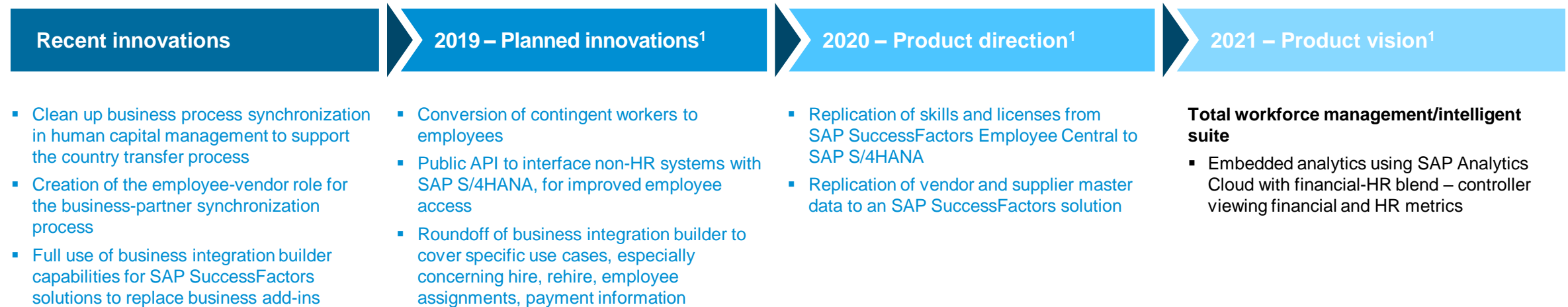
Leverage SAP Cloud Platform for finance

- Functional enhancements for delivered SAP Cloud Platform applications utilizing game-changing transformations
- Procurement/company card
- Accounts receivables/payables financing

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SAP S/4HANA

LoB: Human resources



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Industries



SAP S/4HANA

Consumer industries – SAP Agricultural Contract Management

Recent innovations

Contracts and pricing enhancements

- Creation and support of a roll transaction within the contract pricing user interface
- Support calculation of equity charges for price lifts
- Enhancements to standard output for reconfirmations in case of contract changes: Ability to detect certain amendments like pricing events and amendments. Integration fee framework for additional fees charges
- Support of pricing programs and mass pricing capabilities

Fee framework

- Additional fee master data properties for all supported documents and levels
- Utilizing BRFPplus rules to default fees including rate determination for supported documents
- Automatic triggering of fees when certain predefined event occurs (event fees)
- Fee accrual: Accrue fees prior to invoicing or revenue recognition

Net/dry position reporting



- Capability to adjust position quantity or market values of inventory based on the ever-changing values of quality characteristics in the bins
- Continual weighted average of quality characteristics based on events that occur in an elevator/plant

2019 – Planned innovations¹


Fee framework

- Capabilities to maintain no-price-established (NPE) fees
- Upfront invoicing of fees prior to the settlement of the commodities
- Capabilities to maintain carry fees and characteristic-based fees

Back-to-back application and settlement

-  Automated support of diversions for outbound deliveries
 - Provision of framework to effectively handle multiple buy-sell scenarios
-  Automated reversal process up to selected document improving user experience
 - Enable staging of loads in advance to customer assignment and during interim being managed as yard stock

Daily grain report

-  Provision of a work center to manage automatically shrink of inbound and outbound deliveries, production events; includes the recording of cleaning, drying, and aeration events incorporating the change in weight and quality
 - Enable configurable framework for reporting of stocks in elevator

2020 – Product direction¹

- Enhancements for integration with SAP Transportation Management for planning, scheduling, and execution of transports*
- Supply chain planning and management integration
- Mobility solutions for counterparty/farmer and own personnel
- Management cockpit for agricultural companies based on SAP Digital Boardroom

2021 – Product vision¹

- Enhancements for integration with SAP Transportation Management for planning, scheduling, and execution of transports*

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*Integration with SAP Trader's and Scheduler's Workbench nomination scheduling and execution is available

SAP S/4HANA

Consumer industries – retail and fashion; consumer products

Recent innovations

Retail and fashion foundation

- New object page for promotions and enhanced object pages for article and allocation
- Extended SAP Fiori app “Look Up Retail Products”: Map for nearby stores
- Enable SAP Fiori app “Transfer Products” for mobile RFID antennas
- SAP Fiori app to manage single listings
- EWM integration enhancements for tied empties
- Cross-docking with single-recipient purchase order
- Machine learning global data synchronization (GDS) integration

Wholesale fashion enhancements

- Enhanced stock segmentation strategies
- Enhance supply assignment capabilities
- Flexible purchasing commitments
- Collection execution management
- Fashion logistic capabilities enhancements

Enable manufacturing functionality for vertical retail and wholesale

- Stock segmentation within manufacturing
- Master production/planned order and workbench
- Intelligent services: feasibility analysis
- Markers and bundles
- Smart products: made to measure
- Enhanced planning features in support of comprehensive scenarios

2019 – Planned innovations¹

Retail and fashion foundation

- Provide SAP Fiori app for RFID-based stock taking
- Further extend selected generic SAP Fiori apps to support retail processes
- POS inbound using enterprise service
- Enhanced in-store task management using SAP Fiori app “Perform Store Walk Through”
- Logistical products to support multiple units of measures in procurement and stock keeping

Wholesale fashion enhancements:

- Decision support capabilities around supply assignment (“Arun”) capabilities, such as simulation comparisons and release checks
- Support postponement of concrete decisions on destinations (plants) and article variants when making purchasing commitments
- Enhanced capabilities on direct customer shipments processes.
- Enhanced capabilities of collection handling, such as collection completeness check and integration in logistical processes

Consumer products

- Intelligent trade claims management

2020 – Product direction¹

Retail and fashion foundation

- Further enable RFID-based automation and integrate with SAP Global Track and Trace
- Digitally assisted user experience for additional retail processes in key roles
 - Simplified site maintenance and distribution
- Integration with SAP Consumer Sales Intelligence
- Integration with intelligent store replenishment
 - SAP BW/4HANA content foundation (phased)

Wholesale fashion enhancements:

- Advanced supply demand optimization using supply assignment (“Arun”) capabilities, such as including machine learning/AI algorithms
- Advanced flexible purchasing commitments, such as including machine learning/AI algorithms
 - Advanced collection execution management, including completeness check and extended integration in logistical processes

2021 – Product vision¹

Retail and fashion foundation

- Provide support for in-store product positions (such as geolocation) and enablement of product position based scenarios
- Intelligent sales price workbench
- Support for digital store processes, using technologies such as the IoT, machine learning, augmented reality, natural language processing

Wholesale fashion enhancements:

- Full fashion integration into digital supply chain

Consumer products

- Trade management

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SAP S/4HANA

Discrete industries (1/2) – automotive, aerospace and defense, industrial machinery and components, high tech

Recent innovations

2019 – Planned innovations¹

2020 – Product direction¹

2021 – Product vision¹

Please see next slide

Just-in-time processing

- [Just-in-time supply to customer](#) as new solution to manage summarized and sequenced JIT calls from customers efficiently

Just-in-time processing

- Extended just-in-time supply to customer scenarios with integration to SAP Extended Warehouse Management



- SAP Co-Pilot integration to just-in-time supply to customer



- Situation handling with machine learning for just-in-time supply to customer

Flexible project manufacturing (FPM)

- Combine project manufacturing requirements with MRP data that pegs orders to the end-item deliverable level instead of high level at work breakdown structure (WBS).
- Grouping, pegging, and distribution (GPD) is expected to be replaced by FPM with its improved data granularity and enhanced capabilities. GPD is part of SAP S/4HANA and is expected to migrate to FPM over time to ensure smooth transition.

Just-in-time processing



- Further machine learning scenarios for just-in-time supply to customer
- Just-in-time supply to production as new solution to replenish material with summarized and sequenced JIT calls efficiently

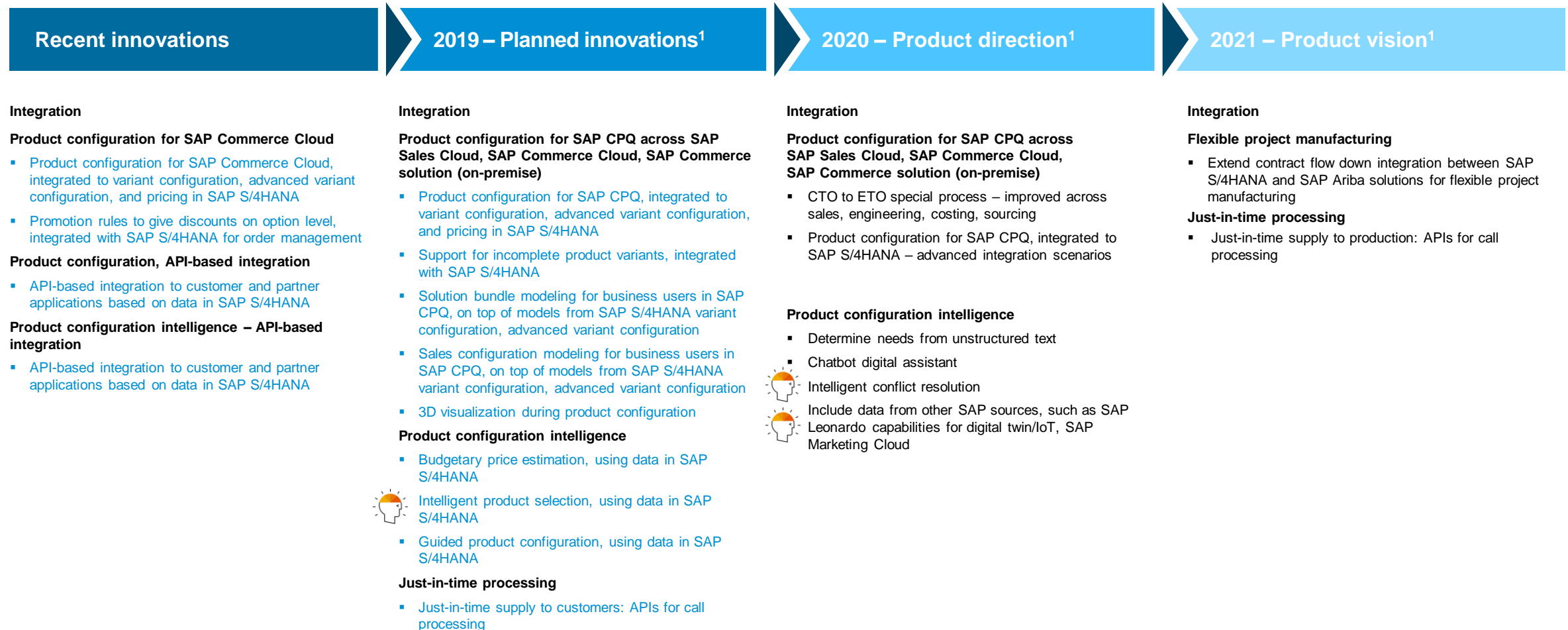
Flexible project manufacturing

- Leverage restricted blockchain to secure communication of sensitive info with vendors and customers (stakeholders) in the supply chain
- Earned value management (EVM) based on data necessary for A&D monitoring and reporting requirements
- Contract flow down such as providing contract data and Defense Priorities and Allocation System (DPAS) ratings per Defense Federal Acquisition Regulation Supplement (DFARS) procurement requirements
- Extend contract flow down integration between SAP S/4HANA and SAP Ariba solutions for flexible project manufacturing

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SAP S/4HANA

Discrete industries (2/2) – automotive, aerospace and defense, industrial machinery and components, high tech



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SAP S/4HANA

Financial services – banking

Recent innovations

Banking

- Amount field length extension – remediation of amount field length in the general ledger to support dedicated business processes in financial service industries for SAP S/4HANA
- Enhancements to the general ledger – average daily balance, multicurrency accounting, and error correction and suspense accounting in SAP S/4HANA
- SAP Loans Management for Banking, SAP S/4HANA edition – enterprise services in the area of "capital transfer"
- SAP Loans Management for Banking, SAP S/4HANA edition – enterprise services in the area of "borrower change"
- SAP Loans Management for Banking, SAP S/4HANA edition – enterprise services in the area of "interest on arrears"
- SAP Deposits Management for Banking, SAP S/4HANA edition – dual-control principle for account hierarchies
- SAP Collateral Management for Banking, SAP S/4HANA edition – BAPI to change real estate objects

2019 – Planned innovations¹

Banking


- SAP Collateral Management for Banking, SAP S/4HANA edition – business API to change collateral agreements
- SAP Loans Management for Banking, SAP S/4HANA edition – new versions of enterprise services in the area of "loan contract master data"



SAP Loans Management for Banking, SAP S/4HANA edition – machine learning capabilities for rollovers


2020 – Product direction¹

Banking

- Continuous banking innovations based on cooperation with customers – for example, in the areas IS-B-BCA (bank current accounts – deposits management), FS-CML (consumer and mortgage loans – loans management), and FS-CMS (collateral management)
-  Innovate banking product portfolio by integrating new technologies such as blockchain or machine learning

2021 – Product vision¹

Banking

- Leverage SAP S/4HANA–specific principles and continuously provide innovations in the banking area based on cooperation with customers
-  Build SAP Leonardo capabilities for banking with core banking services as basis, enriched by partner- and customer-specific services, and integrate with banking-specific processes in SAP S/4HANA
- Integrate banking-specific processes in cloud solutions from SAP (such as financing within SAP Ariba solutions)

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SAP S/4HANA

Financial services – insurance


Recent innovations

Insurance

- Amount field length extension – remediation of amount field length in the general ledger to support dedicated business processes in financial service industries for SAP S/4HANA
- Product configuration for insurance and digital products
- Virtual data model and query core data services views
- Sample content – carbon footprint management
- Sample content – profitability and cost management for the high-tech industry
- Group insurance as a part of policy management in SAP S/4HANA
- Enablement of coinsurance as part of policy management in SAP S/4HANA
- Remote-enabled function modules for cash-before-cover activities for policy management in SAP S/4HANA, line of business auto
- Publishing of policy versions as part of policy management in SAP S/4HANA
- Subledger accounting for insurance companies

2019 – Planned innovations¹

Insurance

- Financial products subledger accounting for insurance as an integrated part of SAP S/4HANA including additional content for IFRS 9 and 17
- Quotations and underwriting for insurance
- New functionality for SAP Reinsurance Management (FS-RI)
- Sample content – profitability and cost management for content in the discrete industries
- General – enhanced rules for Excel import and export in the modeling environment
-  General – integration of SAP HANA with Scala and Spark for deep learning and Big Data
- Sample content – profitability and cost management for content in public services
- Sample content – profitability and cost management for content in the energy and natural resources industries
- Sample content – Solvency II for content in financial services insurance


2020 – Product direction¹

Insurance

- Make SAP S/4HANA Cloud for insurance collections and disbursements, single tenant edition, the natural choice for insurance
- Evolve SAP's financial products subledger toward financial steering (such as forecasting, planning, simulation, accountant workplace)
- Financial service data platform providing data models and management for primary insurance and reinsurance
-  Innovate insurance product portfolio by integrating new technologies such as analytics/digital boardroom, the IoT, machine learning, and blockchain
- Leverage SAP S/4HANA-specific principles and continuously provide innovations in the insurance area in cooperation with customers
- Enhance user experience, interfaces, integration, and operations
- Provide integration points into SAP C/4HANA solutions for insurance sales agent and customers

2021 – Product vision¹

Insurance

-  Build SAP Leonardo capabilities for insurance with core insurance services as basis, enriched by partner- and customer-specific services, and integrate with insurance-specific processes in SAP S/4HANA
- Integrate insurance-specific processes in cloud line of business solutions from SAP

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SAP S/4HANA

Public services – public sector (1/2)

Recent innovations

Public sector management

- SAP Fiori apps for grants management in SAP S/4HANA
- Virtual data model for analytics in grants management
- Extended reference document number – more-accurate reporting and integration

Social service management

- Social services management as part of SAP S/4HANA for customer management

Tax, benefits, and payment processing for public sector

- SAP Fiori analytical apps for SAP Tax and Revenue Management for Public Sector – total amount and total number form bundles
- SAP Fiori app “Form Bundles”
- Redefined user experience (UX) for the role of customer service representative-, tax and revenue management
- Consumable virtual data model for tax and revenue management

2019 – Planned innovations¹

Public sector management

- SAP Fiori apps for grants management in SAP S/4HANA (enhancements)

Tax, benefits, and payment processing for public sector

- SAP Fiori analytical apps for SAP Tax and Revenue Management for Public Sector: Overdue filers/overdue form and active registrations per tax type, taxpayer, and more
- OData services for multichannel foundation for public sector (enhancements)
- Support for SAPUI5 forms in the back end for SAP Tax and Revenue Management for Public Sector
- Additional SAP Fiori apps – smart business KPIs
- Debt management as part of SAP S/4HANA for customer management
- Interaction center for financial customer care

Tax and revenue management integration to SAP Commerce, citizen engagement accelerator

- Tax community engagement
- Form handling and submission
- Payments

Investigative case management

- Investigative case management as part of SAP S/4HANA for customer management

Grantor management

- Grantor management as part of SAP S/4HANA for customer management

2020 – Product direction¹

Public sector management

- U.S. federal financials in universal journal

Leverage blockchain usage in governments

- Trusted workflows
- Document digitalization

Embedded omnichannel experience

- Grantee engagement (SAP Customer Experience solution)
- Citizen engagement for social protection (SAP Customer Experience solution)

Connected products (SAP Cloud Platform)

- Debtor insights
- Digital citizen wallet
- Additional applications based on data foundation for public sector



Machine learning and predictive business actions for government capabilities



Increase automation for government processes and embed digital assistant features

2021 – Product vision¹

Connected products (SAP Cloud Platform)

- Additional applications based on data foundation for public sector



Machine learning and predictive business actions for government capabilities

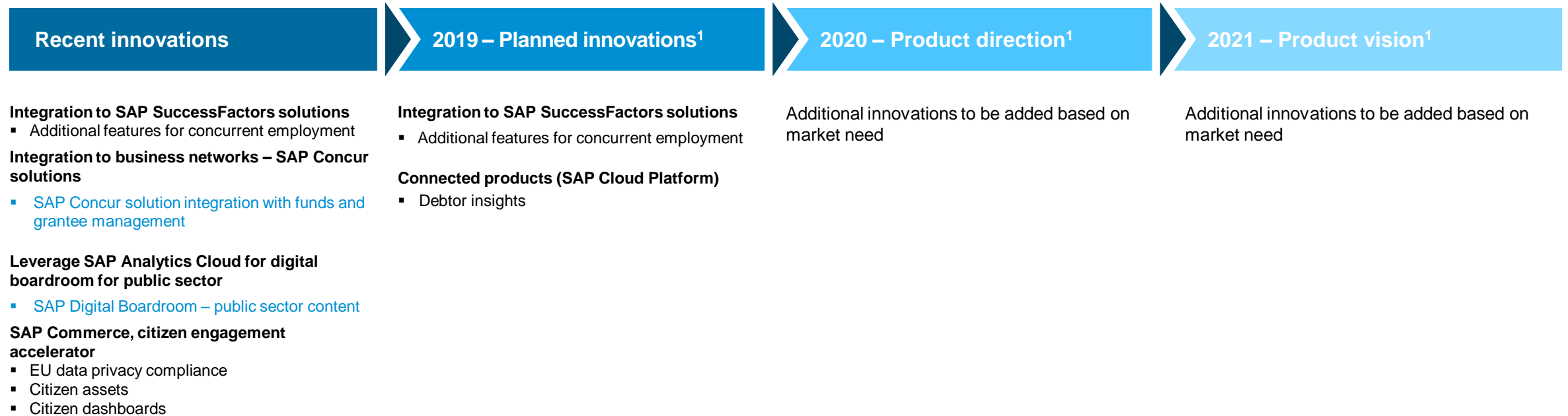


Increase automation for government processes and embed digital assistant features

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SAP S/4HANA

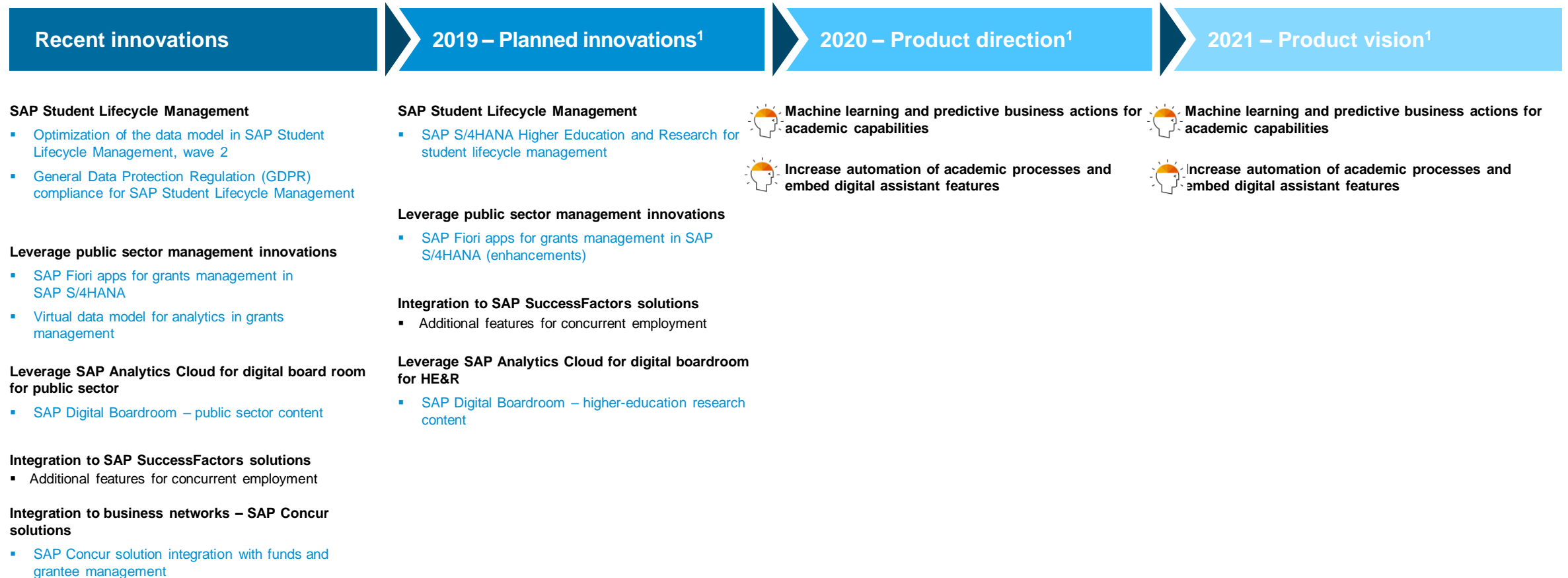
Public services – public sector (2/2)



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SAP S/4HANA

Public services – higher education and research (HE&R)



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SAP S/4HANA

Public services – defense and security

Recent innovations

Extended warehouse management


- Enablement of “item unique identification” (iUID) in the relevant processes and tables of embedded SAP EWM

2019 – Planned innovations¹

Defense and security – force element renewal

- Foundation of defense and security processes in the digital core around the new force element concept
- Functions to plan, to set priorities, and to allocate scarce defense and security resources
- New object to represent defense capabilities and their assignment to force elements

Extended warehouse management

- Enablement of “item unique identification” (iUID) in the relevant processes and tables of decentral SAP EWM
- Automated dynamic bin creation and management in embedded SAP EWM
-  [Planograph: SAP Fiori app providing a graphical overview of explosives storage facilities including the display of compliance information for explosives](#)
- [Compatibility and net explosive quantity \(NEQ\) limit checks during management of explosives within storage facilities](#)




2020 – Product direction¹

Defense and security (innovate and extend)

- Capability and force element modeling
- Real-time capability/readiness analytics and operational reporting on live transactional data
- Replenishment of material or services through self-service catalog user interface
- Simulation and enhanced analytics capabilities
- Air/sea/land worthiness
- Relocation capabilities
- Disconnected operations: Leverage newest technologies to allow collaborative processes in communication challenged environments across a number of defense and security concept of operations.

2021 – Product vision¹

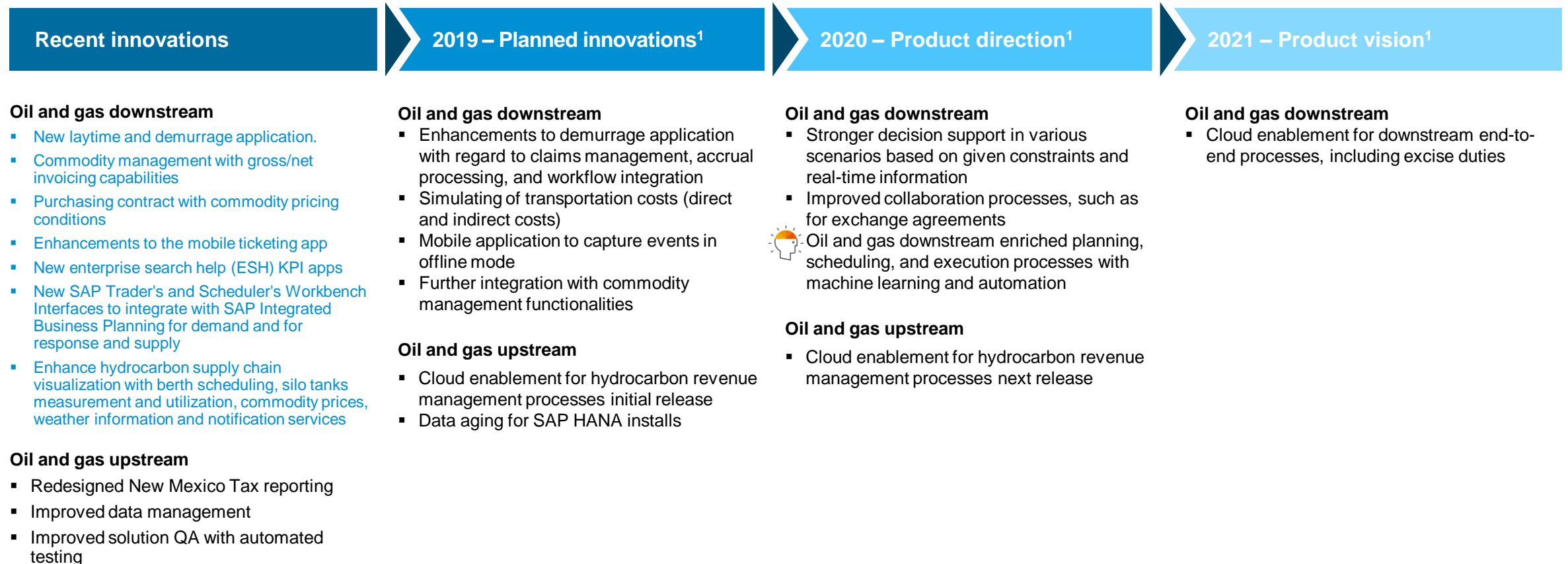
Defense and security (innovate and extend)

- Simulation and enhanced analytics capabilities
- Disconnected operations: Enable collaborative processes in communication challenged environments by providing offline sustainment capabilities for (quasi) permanent teams (such as ships)
-  Predictive business actions in defense operations
-  Machine learning for defense capabilities
-  Increase automation for defense processes and operations

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SAP S/4HANA

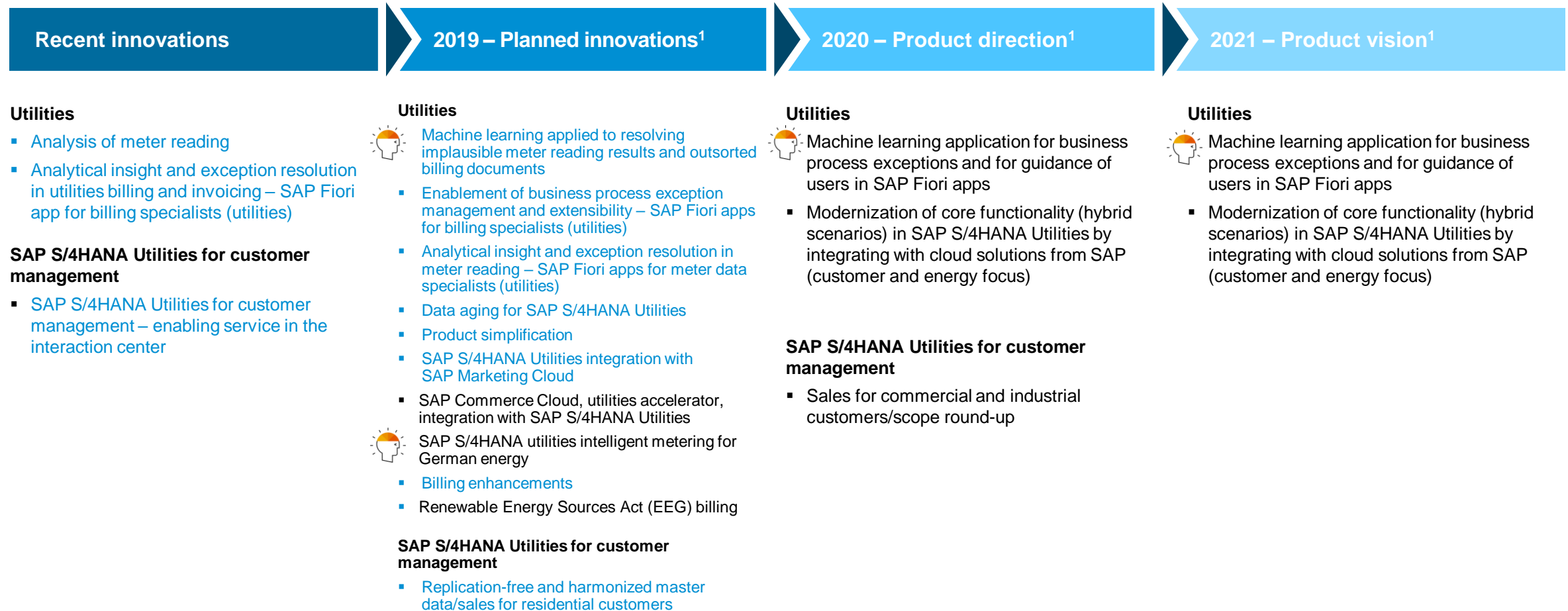
Energy and natural resources (1/2) – oil and gas



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SAP S/4HANA

Energy and natural resources (2/2) – utilities



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Cross-topics



SAP S/4HANA

Master data management (1/2) – master data governance

Recent innovations

Consolidation and mass processing

- Scope and process enhancements in consolidation of master data – identification of duplicates and calculation of best records
- Scope and process enhancements in mass processing of master data – increased data coverage

Central governance

- Product: Adopt SAP S/4HANA simplifications and industry-specific enhancements
- Business partner: Integration with; SAP S/4HANA Cloud for data enrichment enhancement in multiple customer and vendor assignments
- Financial data: Adopt SAP S/4HANA universal journal, such as G/L accounts as basis for cost element; support for new domain: internal order

Data quality and process quality

- Managing data quality rules for products and measuring and analyzing quality of product master data
- Enhanced SAP Fiori user experience in process analytics – summary dashboard and analytical list pages

2019 – Planned innovations¹

Continuous improvements

- Various innovations, continued enhancements and round-offs in core MDG disciplines such as consolidation, central governance, mass processing, process and data quality analytics – for example, based on feedback from SAP Customer Connection program

Integration scenarios

- Enhanced integration with SAP Cloud for Customer
- Mass enrichment for on-premise deployment of master data governance

Data quality management



- Enabling rule mining in master data quality management

2020 – Product direction¹

Expand the foundation . . .


- Support all critical MDM capabilities in one single packaged application
- Flexibly support heterogeneous environments, with faster time to value than just a toolbox
- Leverage SAP's footprint to simplify MDM and integration across on-premise and cloud applications

. . . and support new master data challenges



-  Increasing velocity and growing amounts of master data, demand for a higher degree of automation
-  Leverage new technologies, such as machine learning, to enable the new promises of the digital transformation

2021 – Product vision¹

Support strategic trends

- MDM across on-premise and cloud apps
- Seamless master data exchange across the entire business network
-  Master data for end-to-end IoT solutions spanning devices and apps

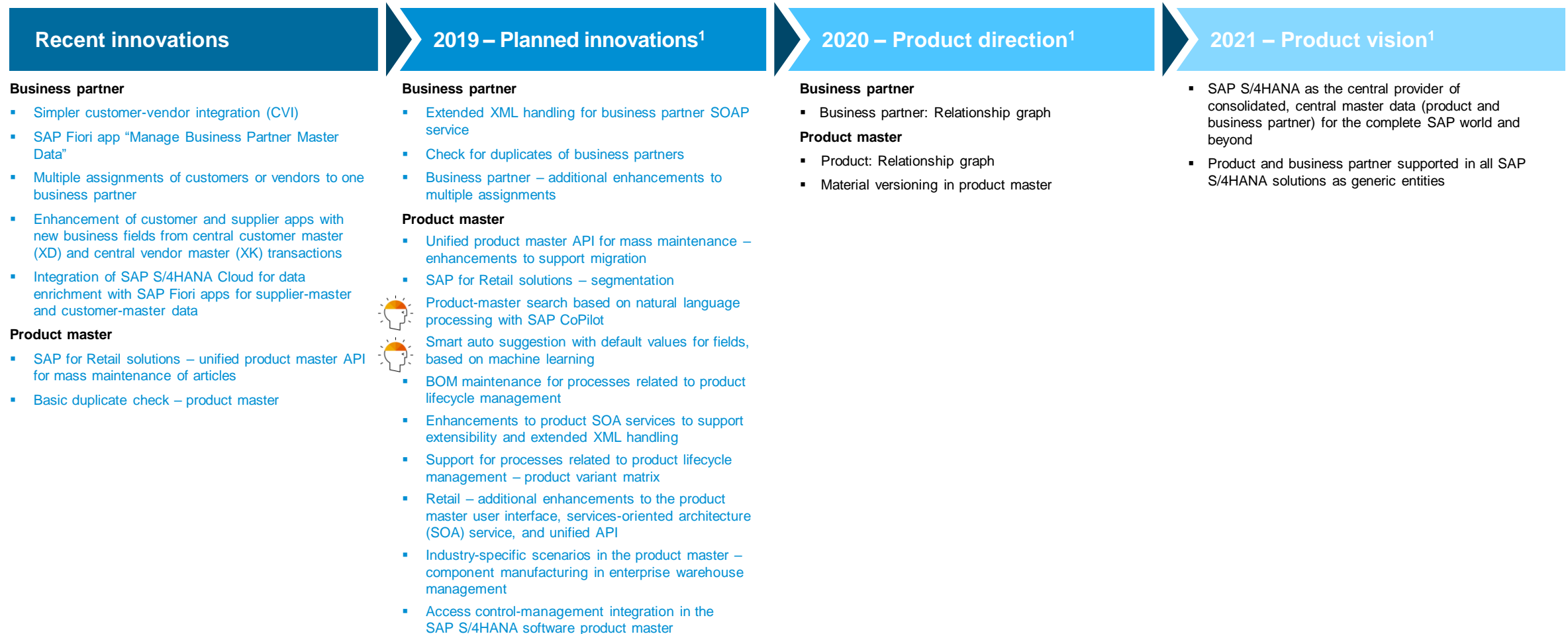
Simplify creation, management, and use of master data

-  One platform for all domains and use cases natively using EIM and SAP HANA
- Intuitive user experience and high business user efficiency
- Embedded analytics, stewardship, monitoring, and remediation
-  Further automation of routine tasks such as error correction or data completion

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SAP S/4HANA

Master data management (2/2) – master data maintenance



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SAP S/4HANA

Foundation, analytics, and localization



Output management

- [Data retention](#)
- Improved business rule framework plus (BRFplus) lifecycle
- SAP Fiori app for managing logos and texts for master form templates

Transaction search

- [Enable searches for all SAP transactions from the SAP Fiori launchpad](#)

Custom dictionaries

- Capturing of common structures in unstructured data
- Allows to store and work on unstructured data by utilizing text analysis

Analytics

- [KPI Modeler app](#)

Localization

- New countries: Austria, Brazil, India, Mexico

Analytics

- [KPI and report modeler](#)

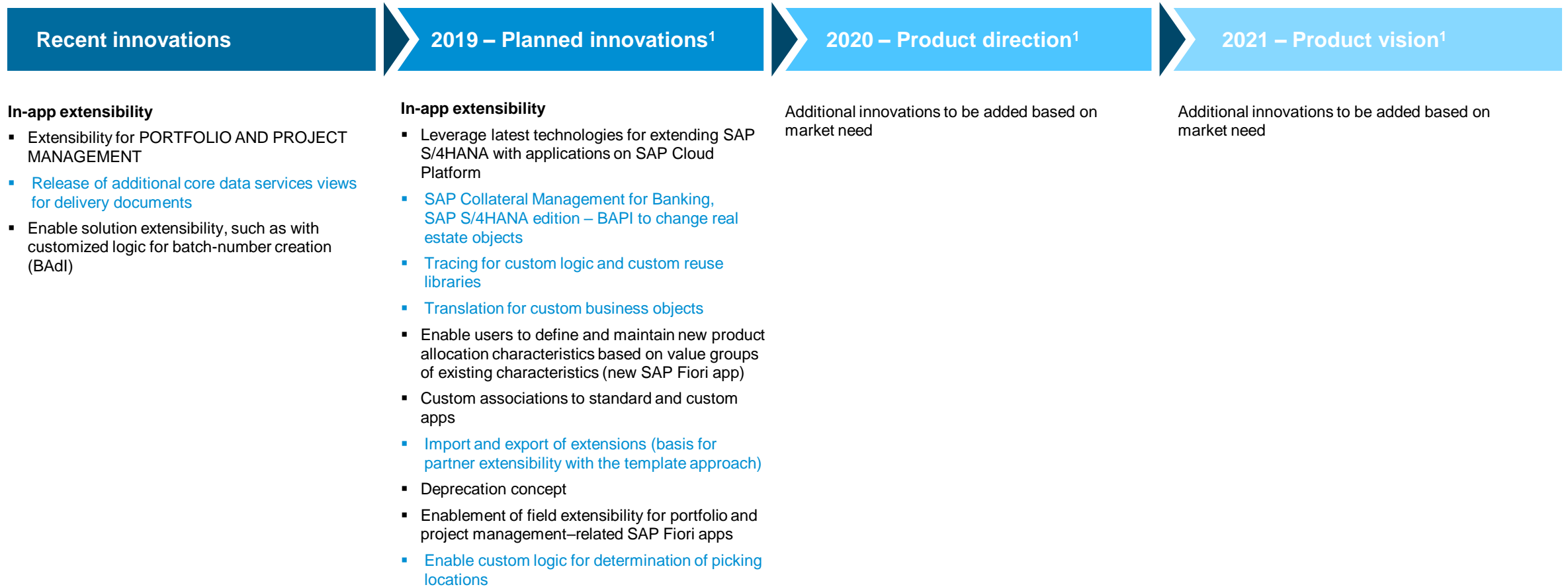
Further innovations will be added according to market need

Further innovations will be added according to market need

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SAP S/4HANA

Extensibility (1/2)



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SAP S/4HANA

Extensibility (2/2)

Recent innovations

Side-by-side extensibility

- SAP Cloud Platform, ABAP environment
- SAP Extensibility Explorer – support for SAP S/4HANA Cloud customers and partners
- Access data from a local database on SAP Cloud Platform in a Java application
- Create new OData service on SAP Cloud Platform in a Java application
- Consume OData services from remote back-end systems to expose new services in the cloud
- Client libraries for SAP Enterprise Messaging
- Release of additional core data services views for delivery documents (SAP S/4HANA)
- Event enablement in SAP S/4HANA for SAP Enterprise Messaging
- Dynamic generation of SAP HANA persistence in the back end from OpenAPI documents on SAP Cloud Platform
- Publish-subscribe (pub/sub) messaging on HTTP/REST in SAP Cloud Platform
- Create an OData API on SAP Cloud Platform in a serverless environment
- Create new Plain REST API on SAP Cloud Platform in a serverless environment
- Dynamic generation of SAP HANA persistence in the back end from OpenAPI documents on SAP Cloud Platform

2019 – Planned innovations¹

Side-by-side extensibility

- SAP Extensibility Explorer – support for SAP S/4HANA Cloud customers and partners
- SaaS application managed-messaging scenarios using SAP Enterprise Messaging

SAP S/4HANA Cloud SDK

- Simplify and modernize the integration of SAP Cloud Platform services into SAP S/4HANA Cloud extensions
- Support advanced OData, SOAP, and event-based integration in SAP S/4HANA Cloud extensions

2020 – Product direction¹

Additional innovations to be added based on market need

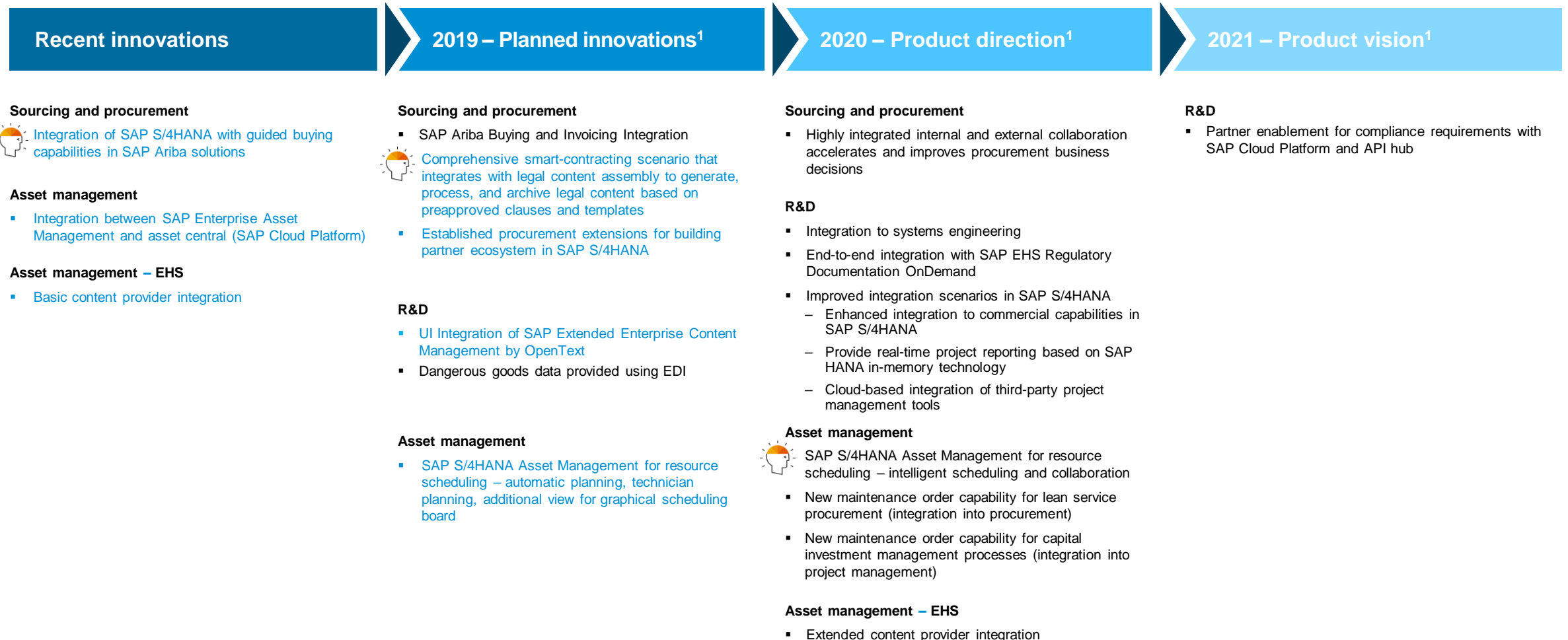
2021 – Product vision¹

Additional innovations to be added based on market need

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SAP S/4HANA

Integration (1/11) – procurement, R&D, asset management



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SAP S/4HANA

Integration (2/11) – supply chain, service


Recent innovations

Supply chain


- [SOAP API for sending and receiving "goods receipt" notes](#)
- [SAP EWM with SAP S/4HANA – improved integration to ERP](#)
 - Synchronous stock posting(with IM)
 - Global batches with deactivation for dedicated plants
 - Reuse of ERP delivery number in EWM
 - Integration to SAP GBT
 - Support IUID functionality in Aerospace and defense industry
 - Visibility of ERP storage location in EWM stocks
- SAP TM – continuous integration into SAP S/4HANA Enterprise Management
 - [Automatic cost pull](#)
 - [Filtering zero charges](#)
 - [Calculation date and exchange rate date-change propagation](#)
 - [Retain manual charges](#)
 - [Deficit weight rating \(DWR\)](#)
 - [Service order management](#)
 - [Forwarding order management](#)
 - [Forwarding settlement simplification](#)

2019 – Planned innovations¹

Supply chain

- Batch management – new OData API for batch (read, create, update)
- Kanban – OData API for kanban control cycle (read, create, update)
- Kanban – OData API for production supply area (read, create, update, delete)
- ATP – OData API – simulative availability check including product availability and product allocations
- [SAP EWM with SAP S/4HANA – simplified integration between extended warehouse management extended warehouse management and quality management without using inspection rules](#)
-  [SAP EWM with SAP S/4HANA – material flow system enhancements and robotics integration framework](#)
- [SAP EWM with SAP S/4HANA – integration to SAP Global Track and Trace](#)
- SAP TM – freight-unit-out and freight-order-in interface
- SAP TM – direct TM-EWM integration
- SAP TM – Cloud collaboration with SAP Logistics Business Network
 - [Carrier invoice \(business to business\)](#)
 - Tour tracking with ETA update
 - Dispute management
 - Self-billing

Service – customer management

-  Service management
 - Field service management integration
 - SAP Leonardo integration for ticket categorization

2020 – Product direction¹

Supply chain

- SAP EWM with SAP S/4HANA – integration to mill industry by supporting batch-specific unit of measure
- SAP EWM with SAP S/4HANA – new and enhanced scenarios in the area of SAP TM integration
- SAP TM – integration into supply chain planning
- SAP TM – integration of advanced available to promise (aATP) for sales-order scheduling
- SAP TM – cloud collaboration with SAP Logistics Business Network
 - Integrated dock appointment scheduling

Service – customer management

- Business solution contract
 - Controlling integration
 - CallidusCloud solutions integration

2021 – Product vision¹

Service – customer management

- Business solution contract
 - Integration with entitlements management solution
 - Integration to legal contract document in CLM (CallidusCloud solutions or LCMS)

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SAP S/4HANA

Integration (3/11) – sales

Recent innovations

- Integration of SAP digital payments add-on with SAP S/4HANA Sales – delete credit card authorizations and credit card authorization history
- OData API for sales orders (create, update, delete) (SAP S/4HANA)
- OData API for sales orders without charge (create, read, update, delete) (SAP S/4HANA)
- OData API for sales contracts (create, update, and delete) (SAP S/4HANA)
- OData API for sales quotations (create, update, and delete) (SAP S/4HANA)
- OData API for return orders (create, update, delete) (SAP S/4HANA)
- OData API for sales documents – credit block (read, check, release, reject) (SAP S/4HANA)
- OData API for credit memo request (create, update, delete) (SAP S/4HANA)
- OData API for debit memo request (create, update, delete) (SAP S/4HANA)
- OData API for customer material information records (create, update, and delete) (SAP S/4HANA)
- OData API for delivery documents – credit block (read, check, release, reject) (SAP S/4HANA)
- Release core data services views to customers in SAP S/4HANA

2019 – Planned innovations¹

- OData API for sales inquiries (create, update, and delete) (SAP S/4HANA)
- SOAP and OData API for billing document requests (create, read, delete, and reject) (SAP S/4HANA)
- SOAP and OData API for billing documents (create, read, and cancel) (SAP S/4HANA)
- Integration of SAP Commerce Cloud with SAP S/4HANA Sales
- Integration of SAP Sales Cloud with SAP S/4HANA Sales (enhancements)

2020 – Product direction¹

- Integration of SAP Marketing Cloud with SAP S/4HANA Sales
- Ariba Network seller-side integration for SAP S/4HANA

2021 – Product vision¹

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SAP S/4HANA

Integration (4/11) – finance

Recent innovations

SAP S/4HANA consolidation

- External system integration

Integration with business networks

- Cost center integration with SAP SuccessFactors Employee Central and SAP SuccessFactors Employee Central Payroll

Real estate

- Integration with legal content management

Cash management

- Enhance the liquidity forecast through integration of real estate data
- Bank fee importing and reporting

Leverage SAP Cloud Platform for finance

- SAP RealSpend – anomaly detection
- Smart alerting in SAP Financial Statement Insights
- SAP S/4HANA Cloud for finance for credit integration: Integration of additional credit agencies

Leverage SAP Cloud Platform for treasury

- Integration of trading platform 360T for inbound and outbound services

Leverage SAP Cloud for Real Estate for corporate real estate management

- Visual workspace management

Leverage SAP Cloud Platform for consolidation

- Enhanced data collection for nonfinancial measures and nonintegrated subsidiaries

2019 – Planned innovations¹


SAP S/4HANA consolidation

- Integration into advanced financial closing
- Integration scenarios with planning applications

Real estate

- Integration of Ariba Network for procurement of real estate services


Leverage SAP Cloud Platform for finance

-  Broaden functionality of machine learning in finance operations processes with SAP cash application
- Application for goods receipt and invoice receipt monitor
- SAP digital payments add-on – self-service integration for certified payment service providers
- SAP digital payments add-on and enablement of additional payment-service provider
- Bank connectivity supporting contract accounting processes
- Virtual credit card


Leverage SAP Cloud Platform for treasury

- Headquarters subsidiary scenario for internal deals
- Cash request scenario

Leverage SAP Cloud for Real Estate for corporate real estate management

- Digital twin – master data extensibility
- Further integration of partner cloud solutions
-  Digital twin: Object-related information sharing
- Integration of IoT scenarios
- Integration of Ariba Network
- Integrate to facility management (EAM)

Leverage SAP Cloud Platform for consolidation

-  Disclosure management
- Intelligent data mapping leveraging machine learning

2020 – Product direction¹

Financial planning

- Integration with SAP Integrated Business Planning for sales and operations

Digital transformation with contract accounting

- Integration of SAP Bank Communication Management

Central finance

- Integration into advanced financial closing

Integration with business networks

- Comprehensive integration scenarios with SAP Ariba solutions, SAP Fieldglass solutions, SAP SuccessFactors solutions, and SAP Concur solutions

Leverage SAP Cloud Platform for finance

- Credit management cockpit
- SAP RealSpend – multidimensional cost reporting

2021 – Product vision¹

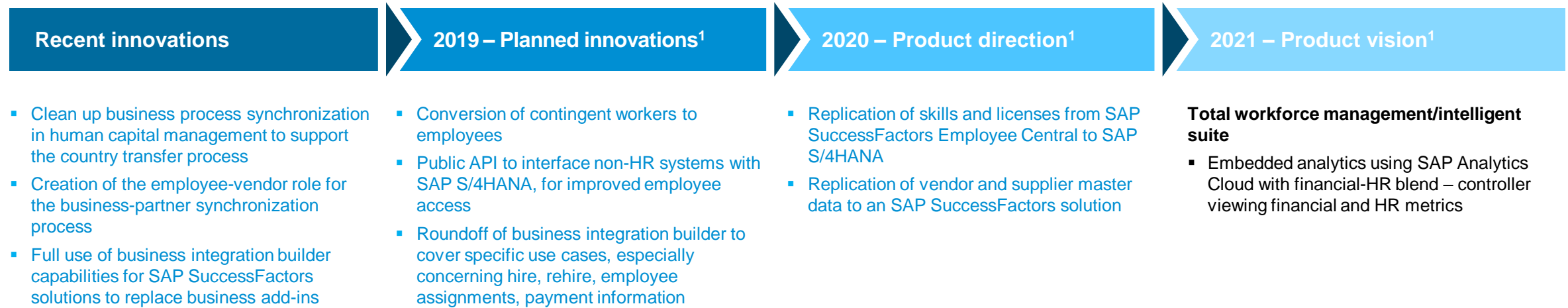
Leverage SAP Cloud Platform for finance

- Functional enhancements for delivered SAP Cloud Platform–based solutions utilizing game-changing transformations
- Procurement/company card
- Accounts receivables/payables financing

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SAP S/4HANA

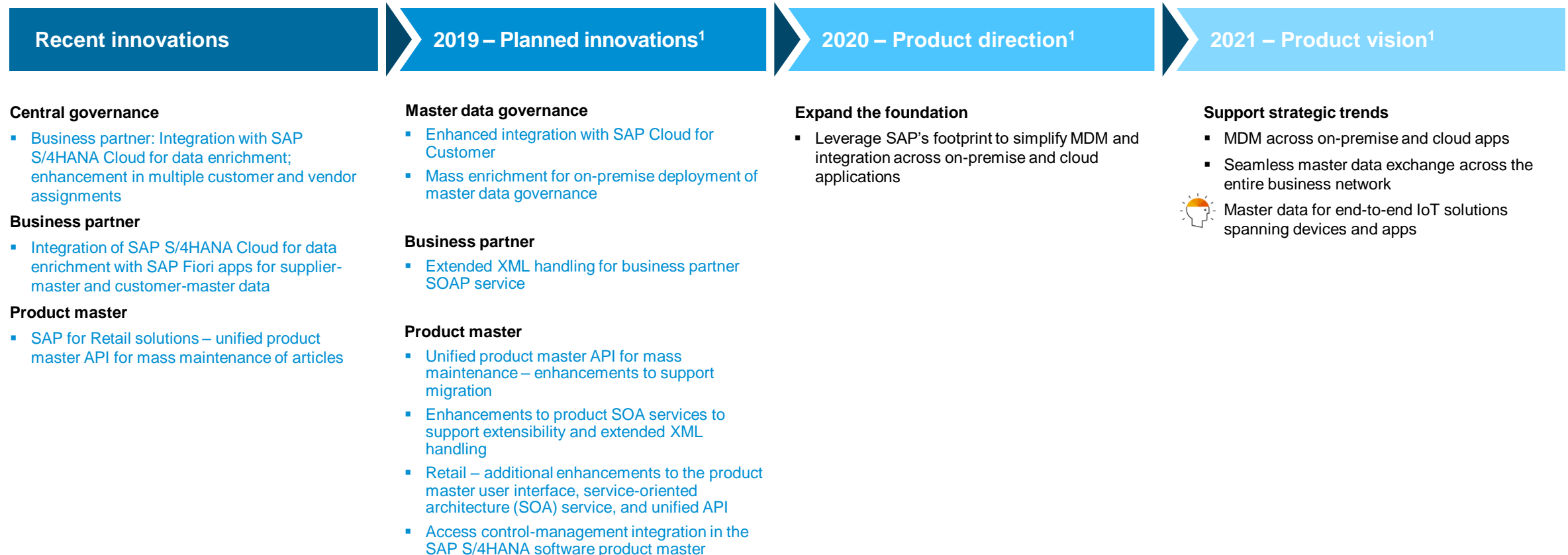
Integration (5/11) – human resources



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SAP S/4HANA

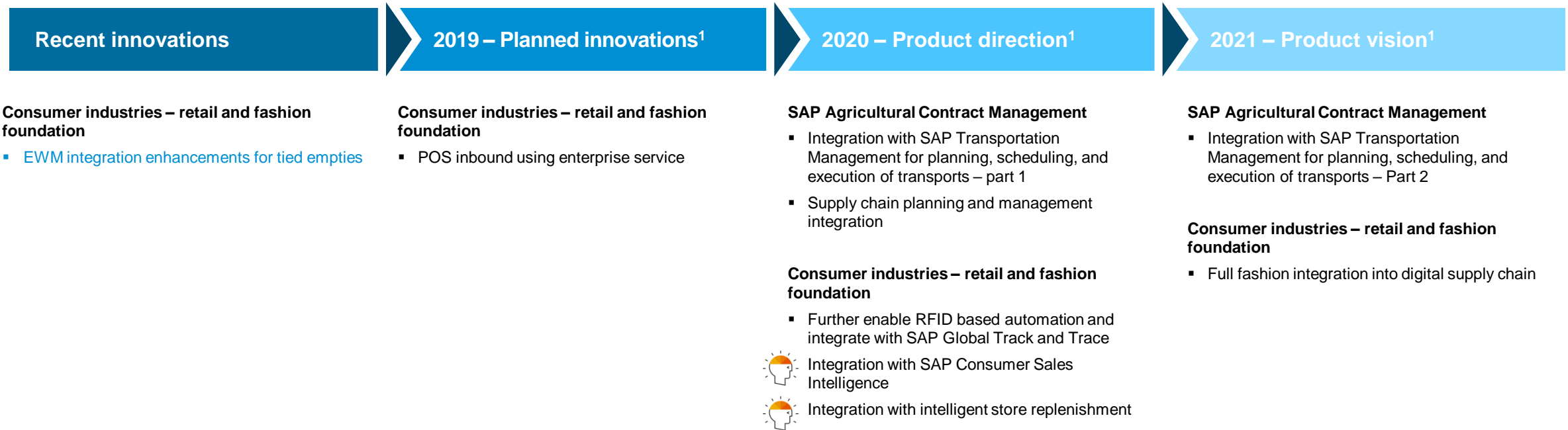
Integration (6/11) – master data management



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SAP S/4HANA

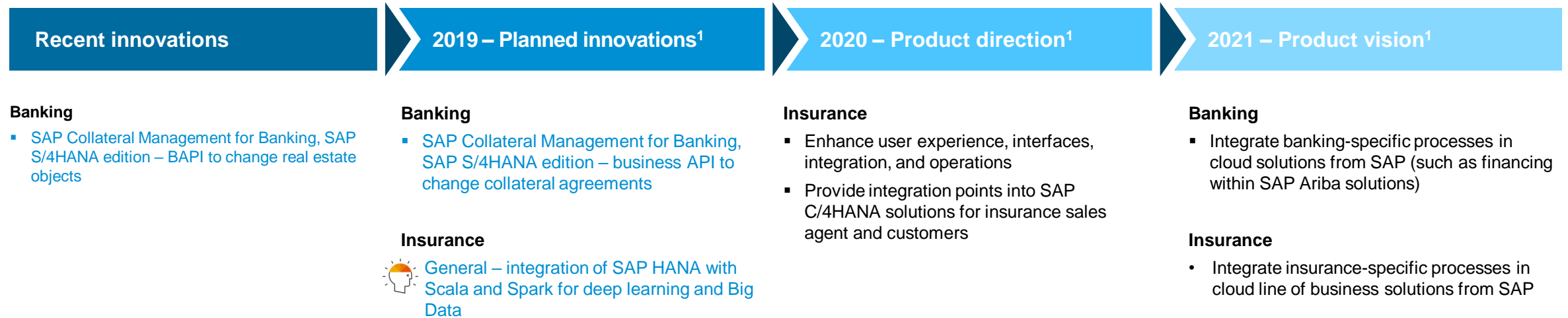
Integration (7/11) – SAP Agricultural Contract Management, retail and fashion



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SAP S/4HANA

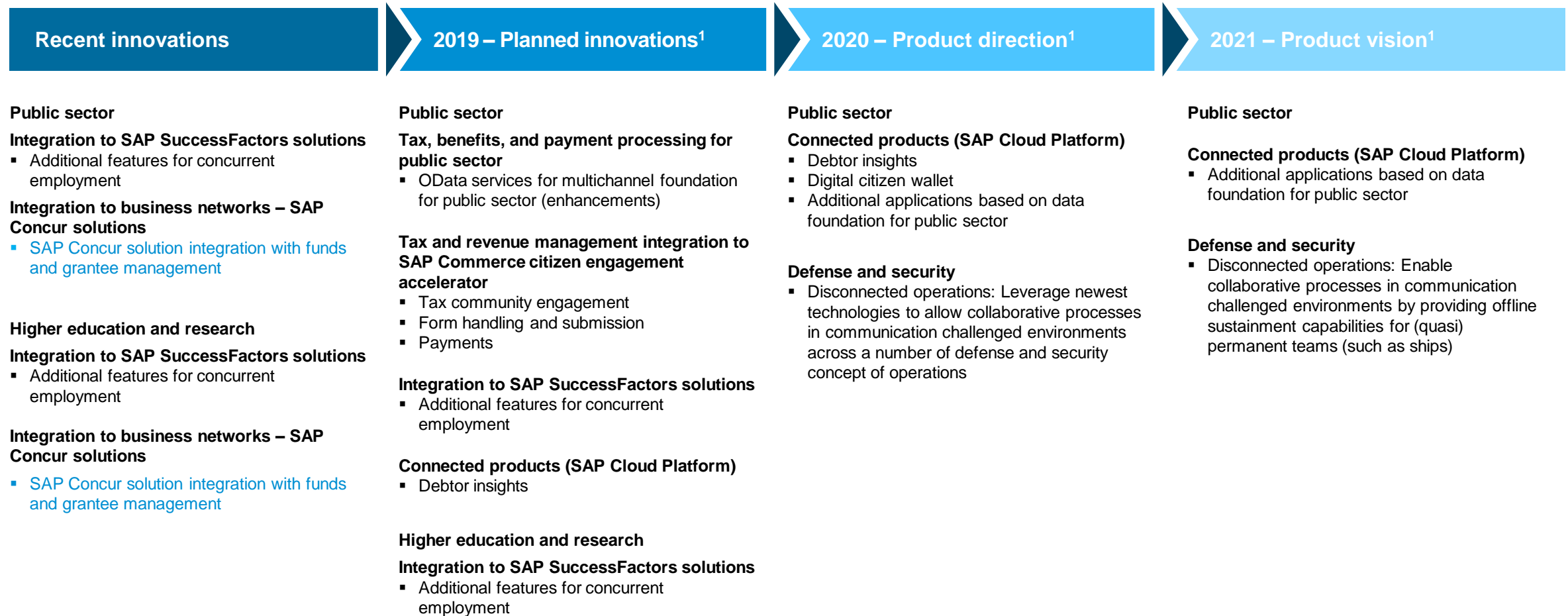
Integration (8/11) – financial services – banking, insurance



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SAP S/4HANA

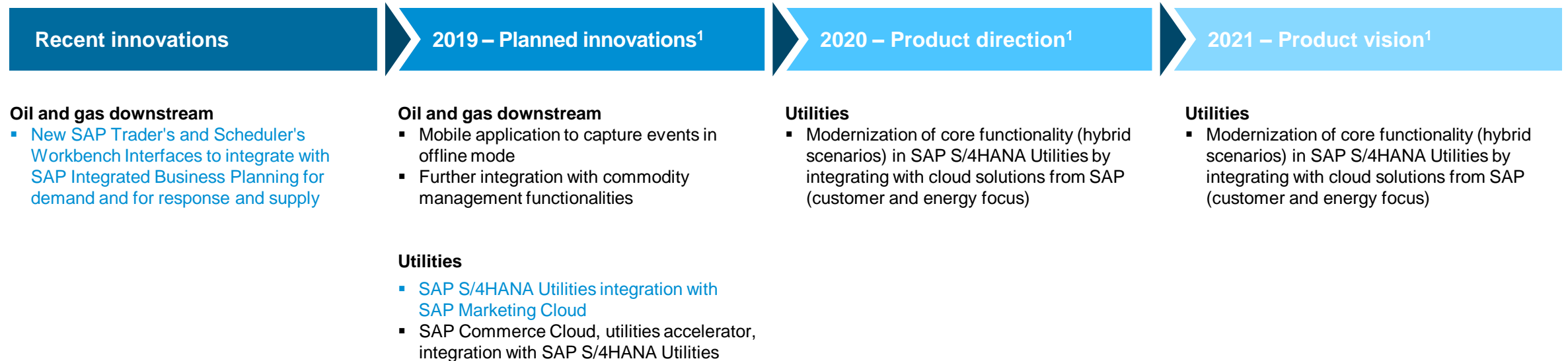
Integration (9/11) – public services – public sector, higher education and research, defense and security



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SAP S/4HANA

Integration (10/11) – energy and natural resources – oil and gas, utilities



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SAP S/4HANA

Integration (11/11) – discrete industries (industrial machinery and components, high tech, automotive)

Recent innovations

Product configuration for SAP Commerce Cloud

- Product configuration for SAP Commerce Cloud, integrated to variant configuration, advanced variant configuration, and pricing, in SAP S/4HANA
- Promotion rules to give discounts on option level, integrated with SAP S/4HANA order management

Product configuration, API-based integration

- API-based integration to customer and partner applications based on data in SAP S/4HANA

Product configuration intelligence – API-based integration


- API-based integration to customer and partner applications based on data in SAP S/4HANA

2019 – Planned innovations¹

Product configuration for SAP CPQ across SAP Sales Cloud, SAP Commerce Cloud, SAP Commerce solution (on-premise)

- Product configuration for SAP CPQ, integrated to variant configuration, advanced variant configuration, and pricing, in SAP S/4HANA
- Support for incomplete product variants, integrated with SAP S/4HANA
- Solution bundle modeling for business users in SAP CPQ, on top of models from SAP S/4HANA variant configuration, advanced variant configuration
- Sales configuration modeling for business users in SAP CPQ, on top of models from SAP S/4HANA variant configuration, advanced variant configuration
- 3D visualization during product configuration

Product configuration intelligence

- Budgetary price estimation, using data in SAP S/4HANA
-  Intelligent product selection, using data in SAP S/4HANA
- Guided product configuration, using data in SAP S/4HANA

Just-in-time processing



- Just-in-time supply to customers: APIs for call processing

2020 – Product direction¹

Product configuration for SAP CPQ across SAP Sales Cloud, SAP Commerce Cloud, SAP Commerce solution (on-premise)

- CTO to ETO special process – improved across sales, engineering, costing, sourcing
- Product configuration for SAP CPQ, integrated to SAP S/4HANA – advanced integration scenarios

Product configuration intelligence

- Determine needs from unstructured text
- Chatbot digital assistant
-  Intelligent conflict resolution
-  Include data from other SAP sources, such as SAP Leonardo capabilities for digital twin and the IoT, SAP Marketing Cloud

2021 – Product vision¹

Flexible project manufacturing

- Extend contract flow down integration between SAP S/4HANA and SAP Ariba solutions for flexible project manufacturing

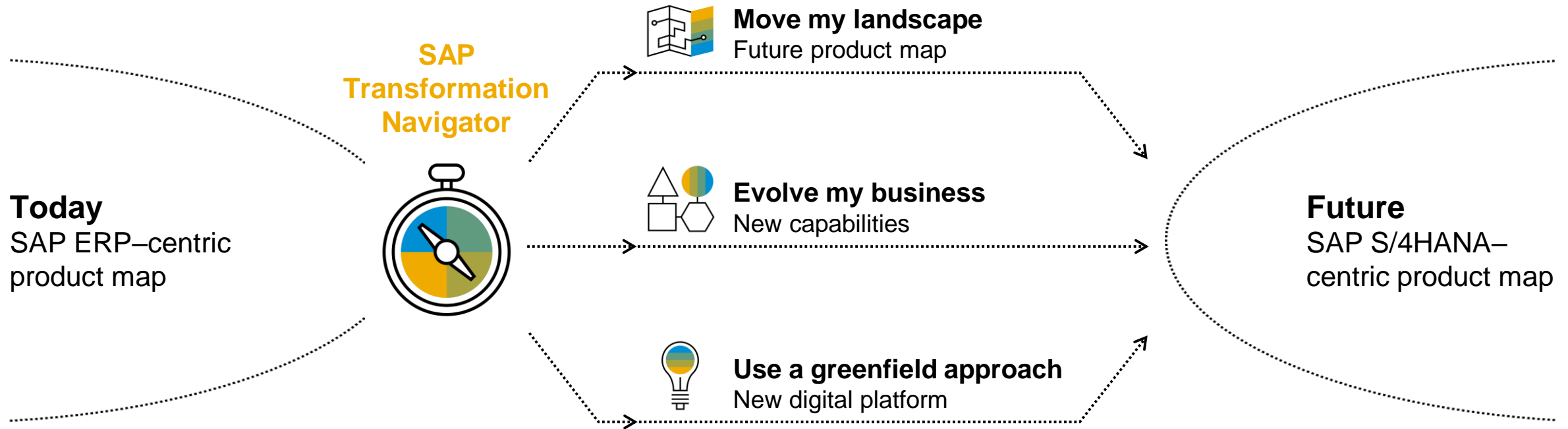
Just-in-time processing

- Just-in-time supply to production: APIs for call processing

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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.
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