



# **SAP S/4HANA** Road Map

May 2019

PUBLIC

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# About SAP road maps

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

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

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

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



# 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
- 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

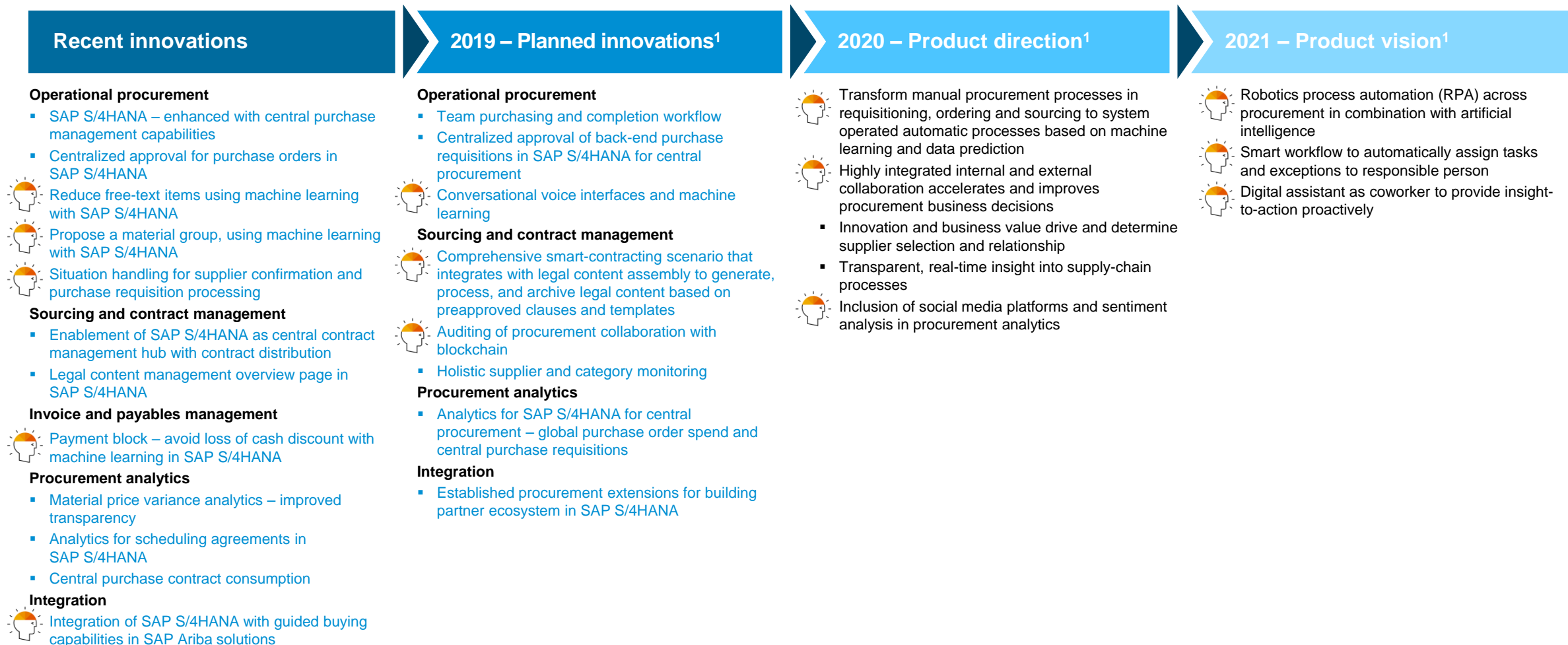


# Lines of Business



# SAP S/4HANA

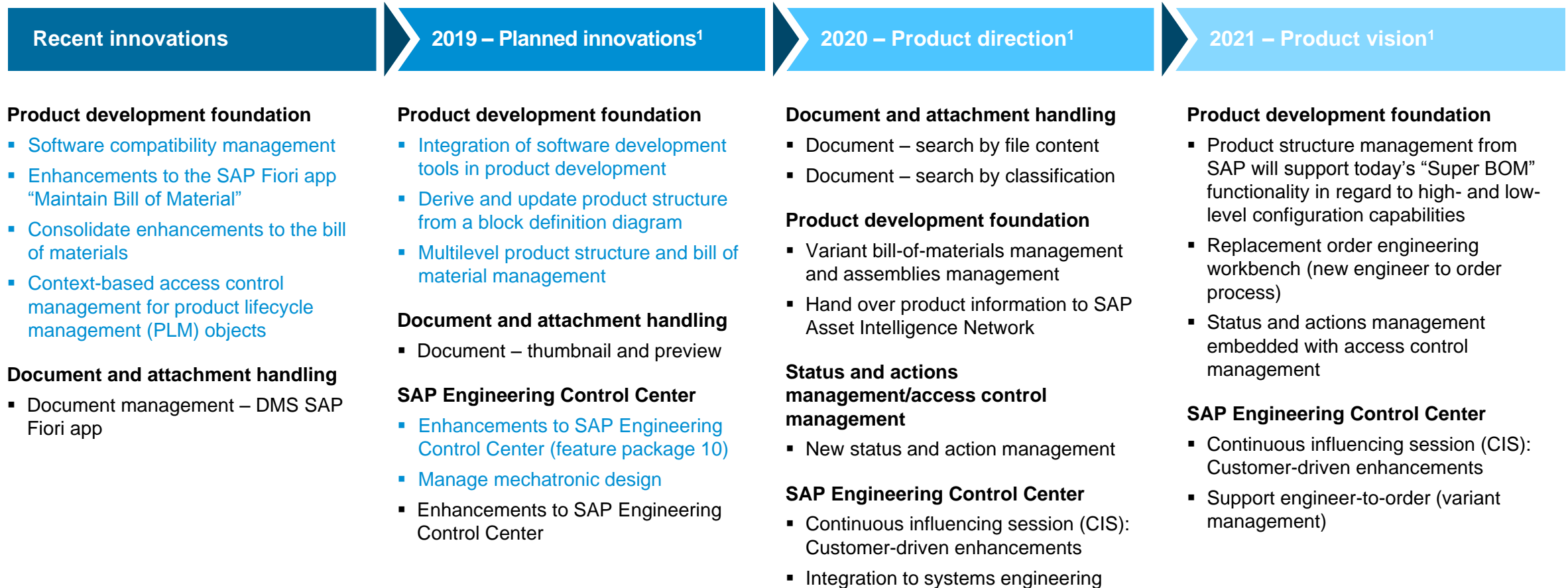
## LoB: Sourcing and procurement



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# SAP S/4HANA

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

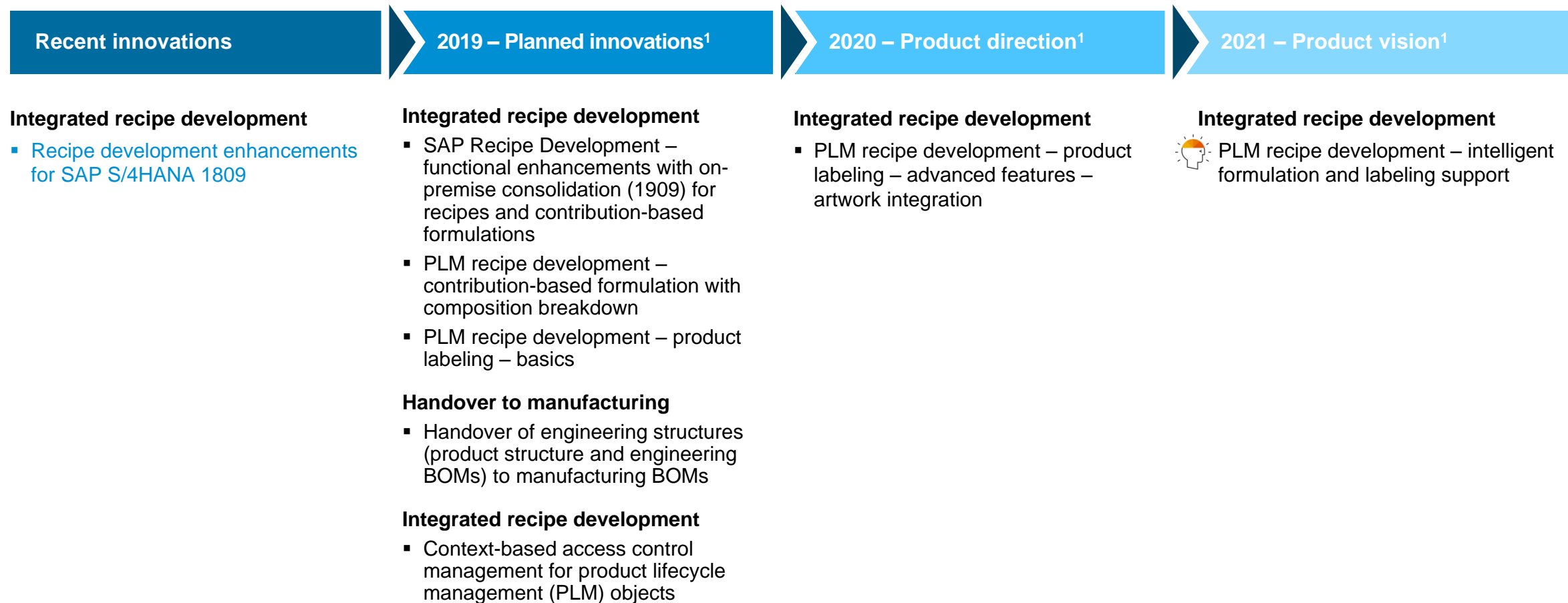


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# SAP S/4HANA

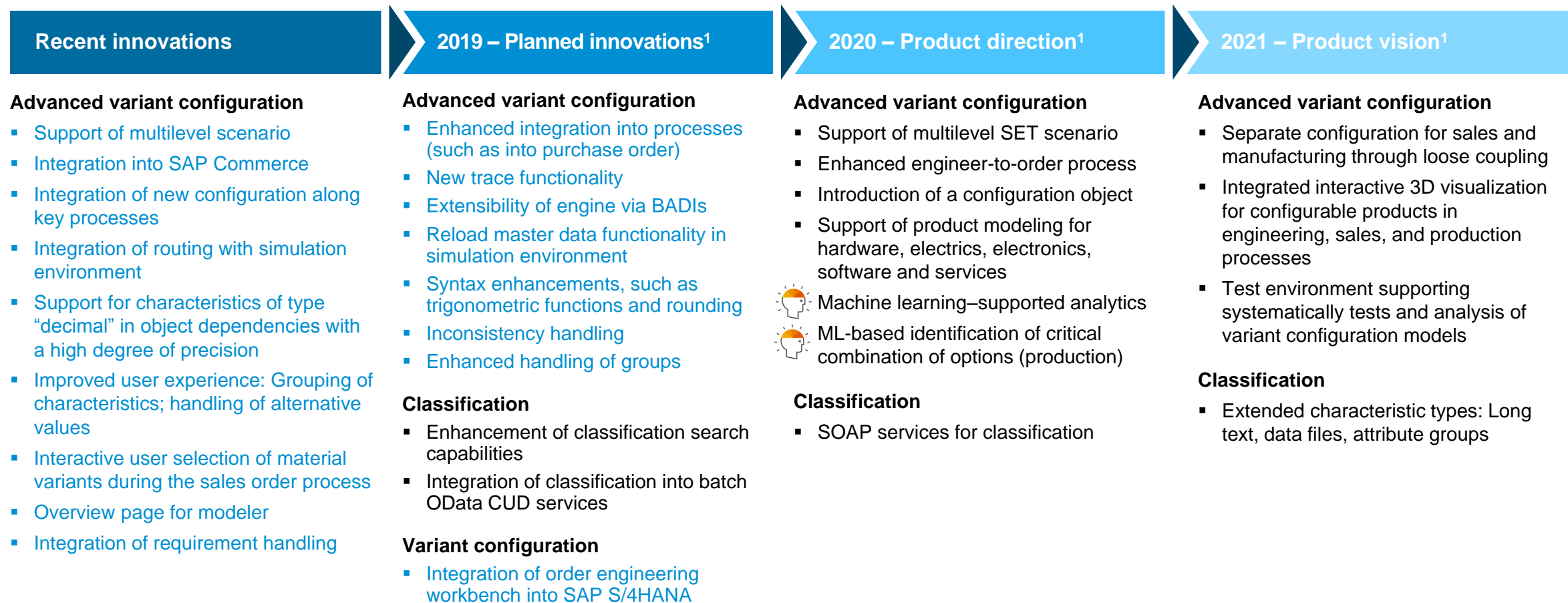
## LoB: R&D/engineering (2/5) – Discrete and process industries (2)



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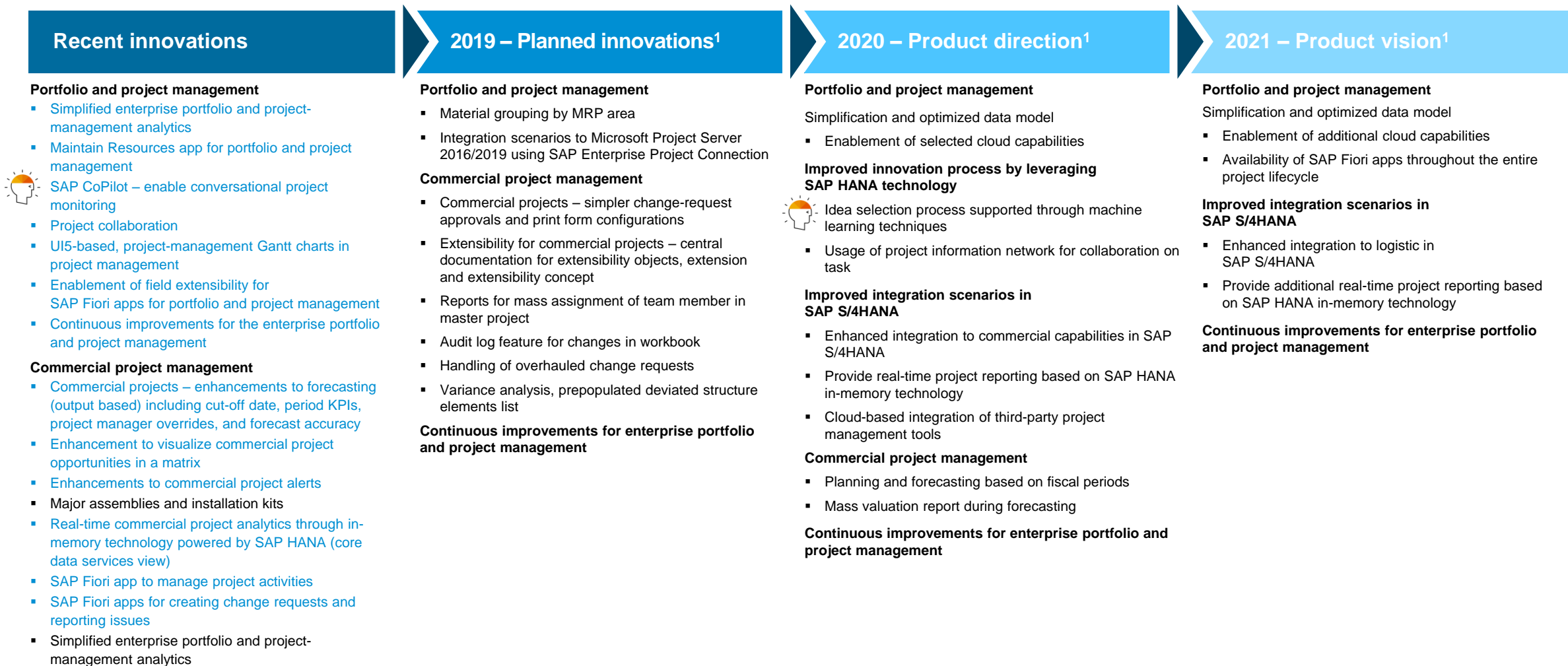
## LoB: R&D/engineering (3/5) – Advanced variant configuration



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



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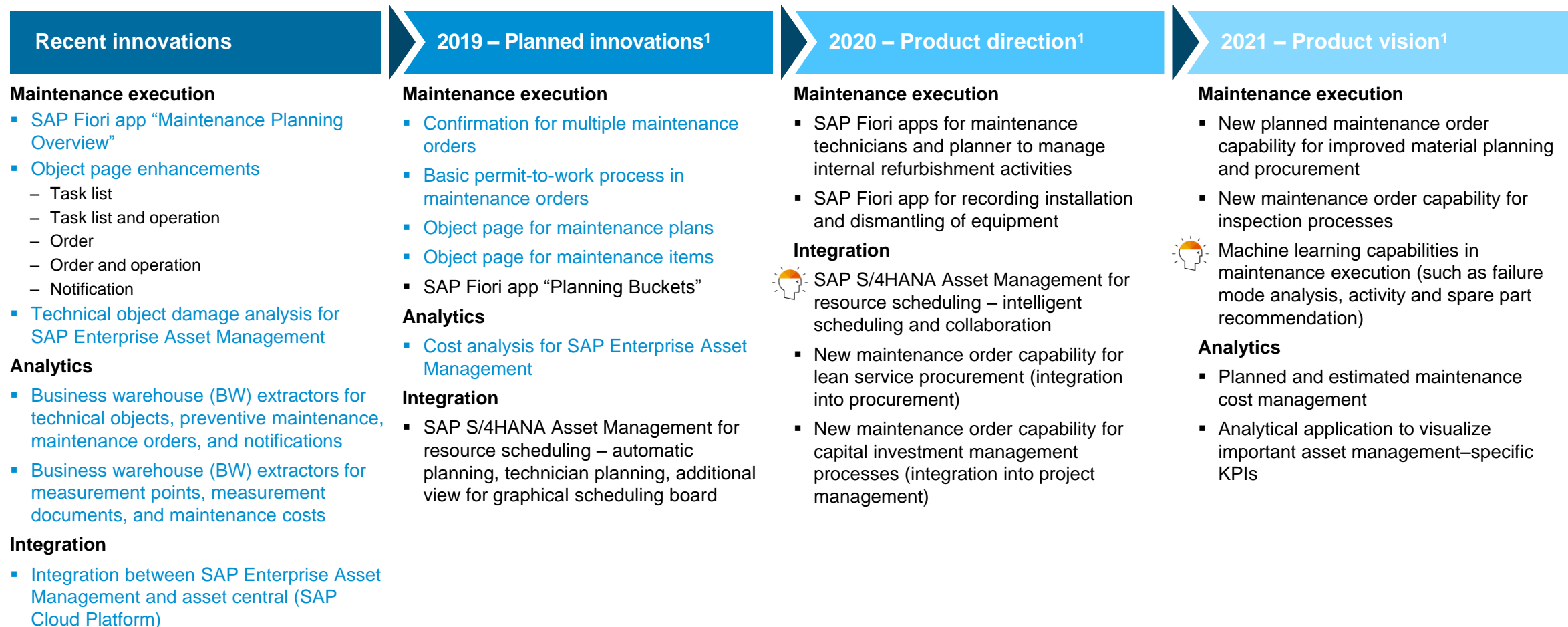
## LoB: R&D/engineering (5/5) – Product compliance



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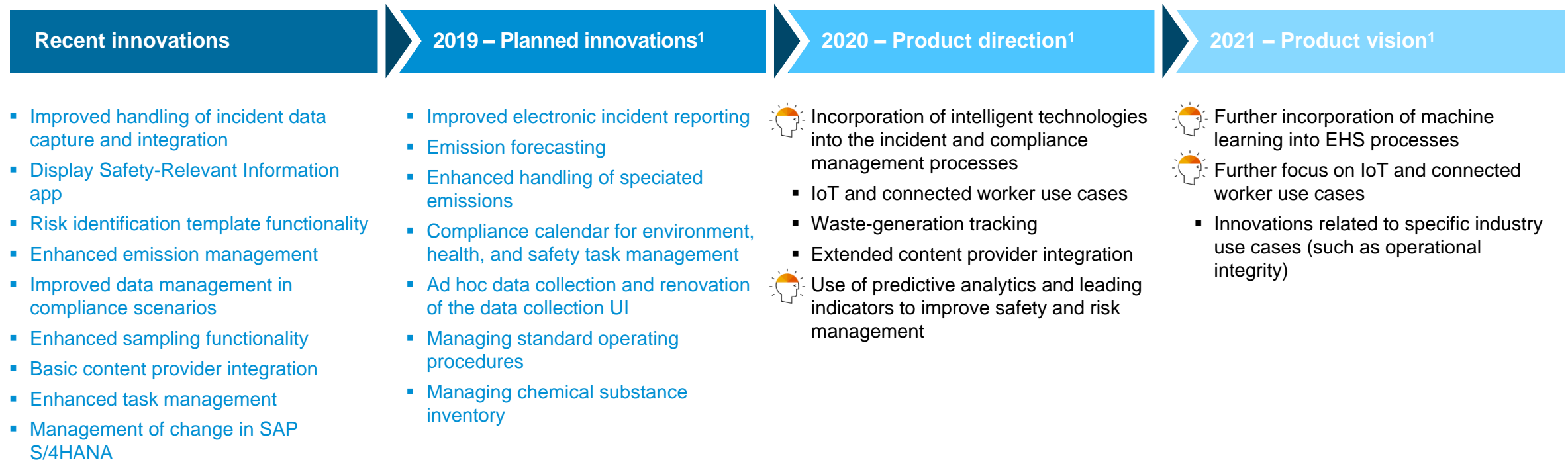
## LoB: Asset management (1/2)



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## LoB: Asset management (2/2) – Environment, health, and safety

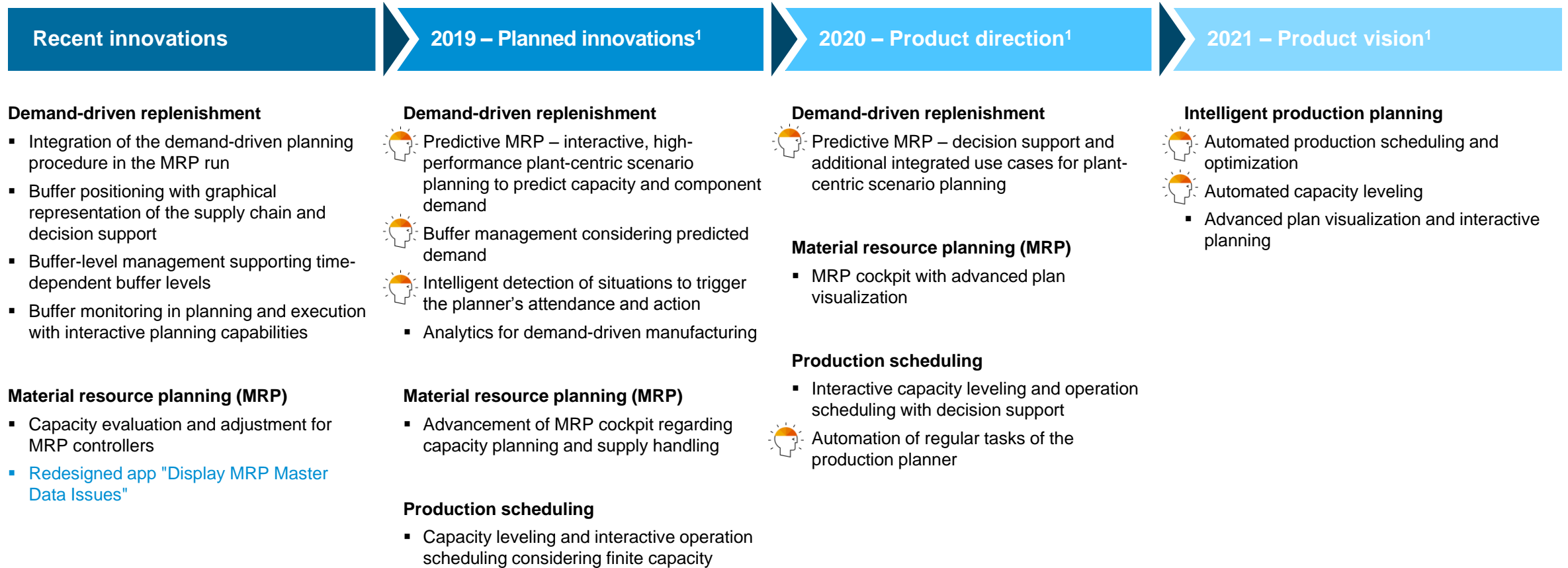


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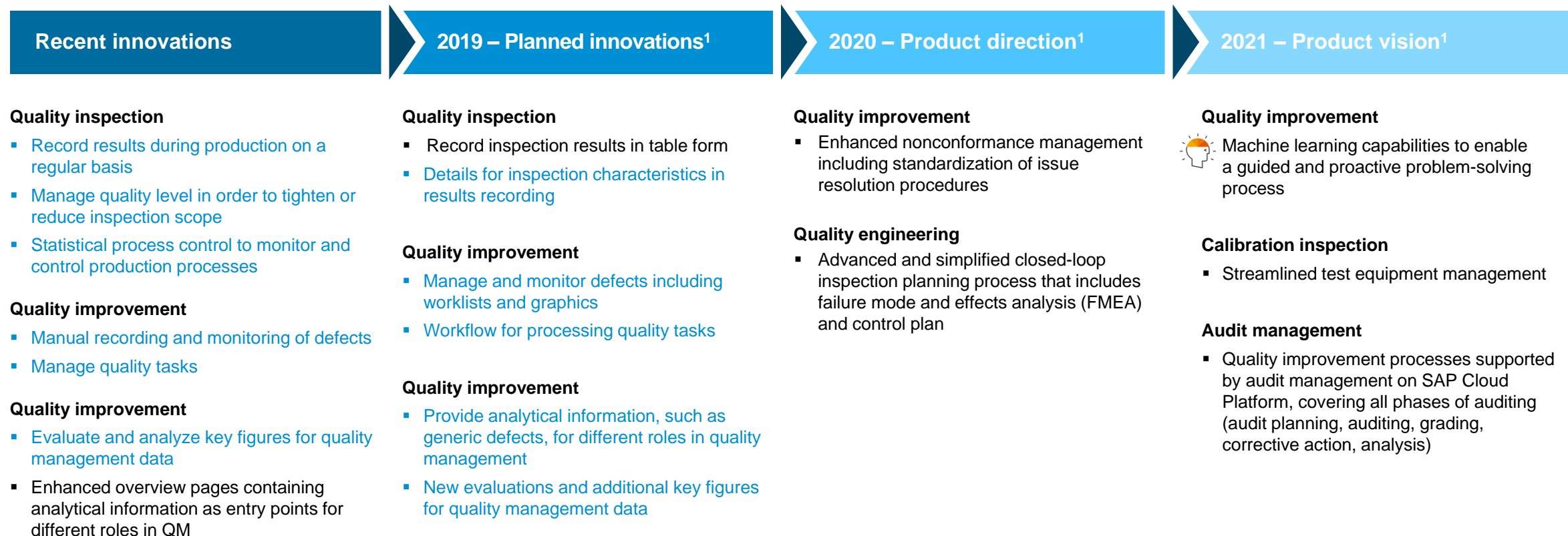
## LoB: Manufacturing (1/3) – Production planning



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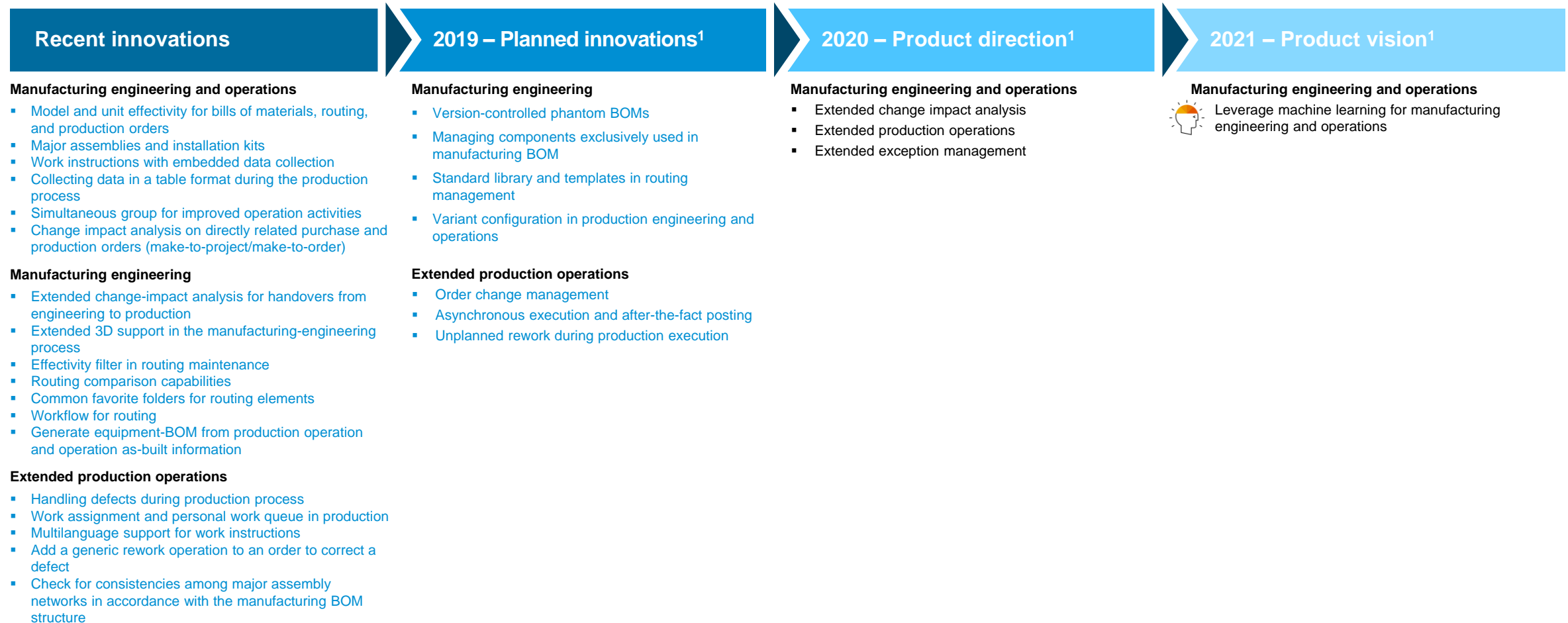
## LoB: Manufacturing (2/3) – Quality management



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## LoB: Manufacturing (3/3) – Production engineering and operations

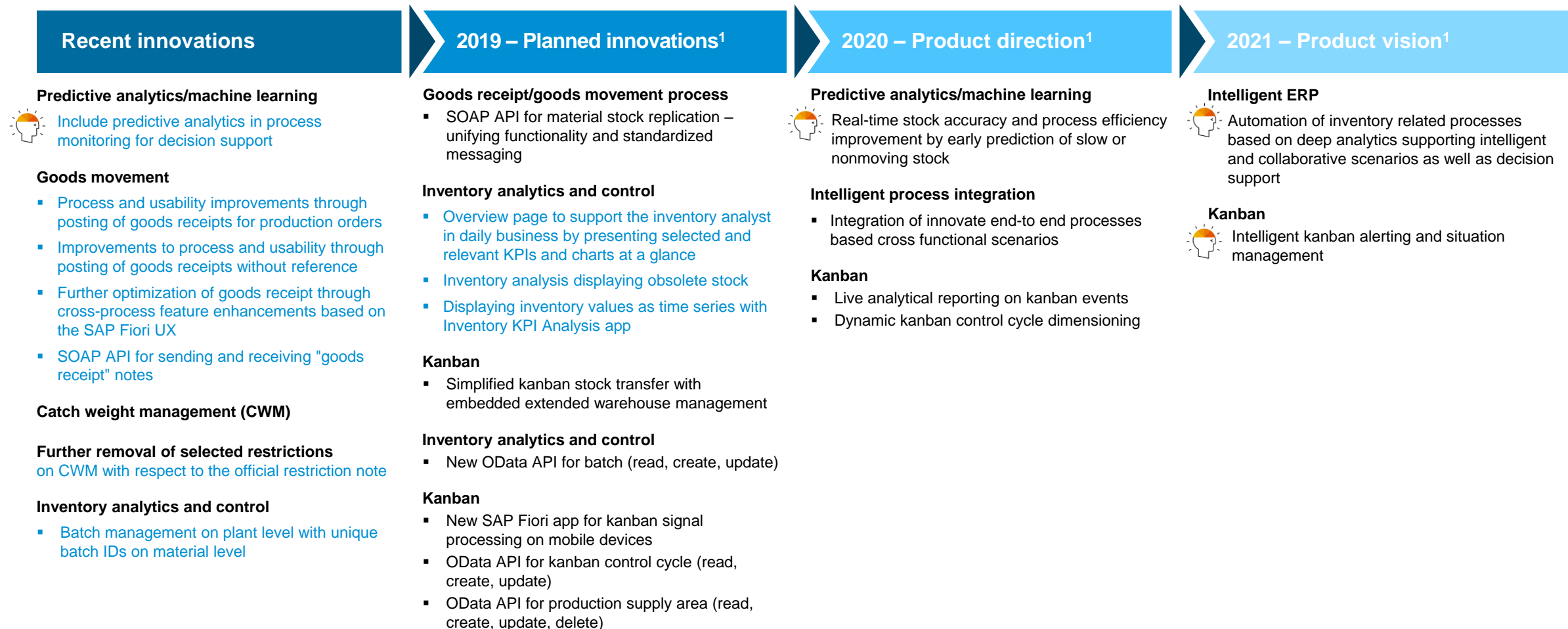


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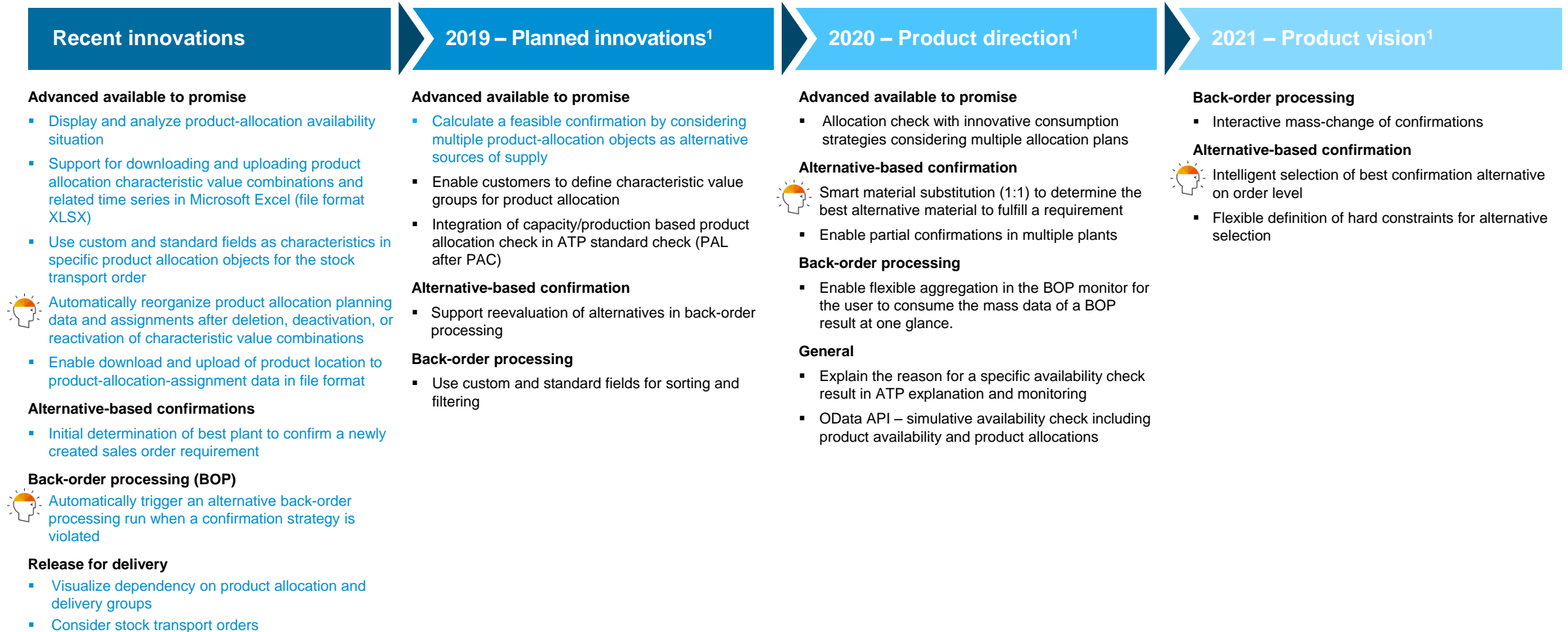
## LoB: Supply chain (1/5) – Inventory management – batch management – kanban



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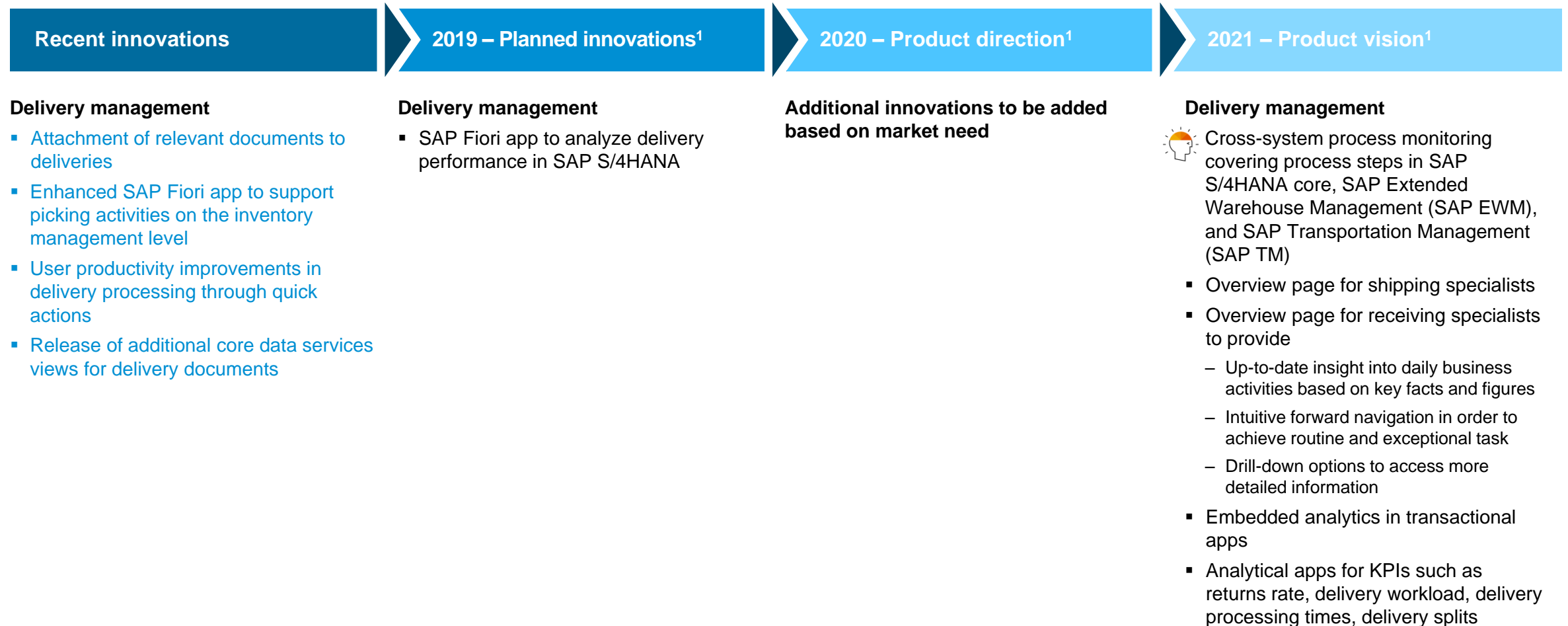
## LoB: Supply chain (2/5) – Order promising



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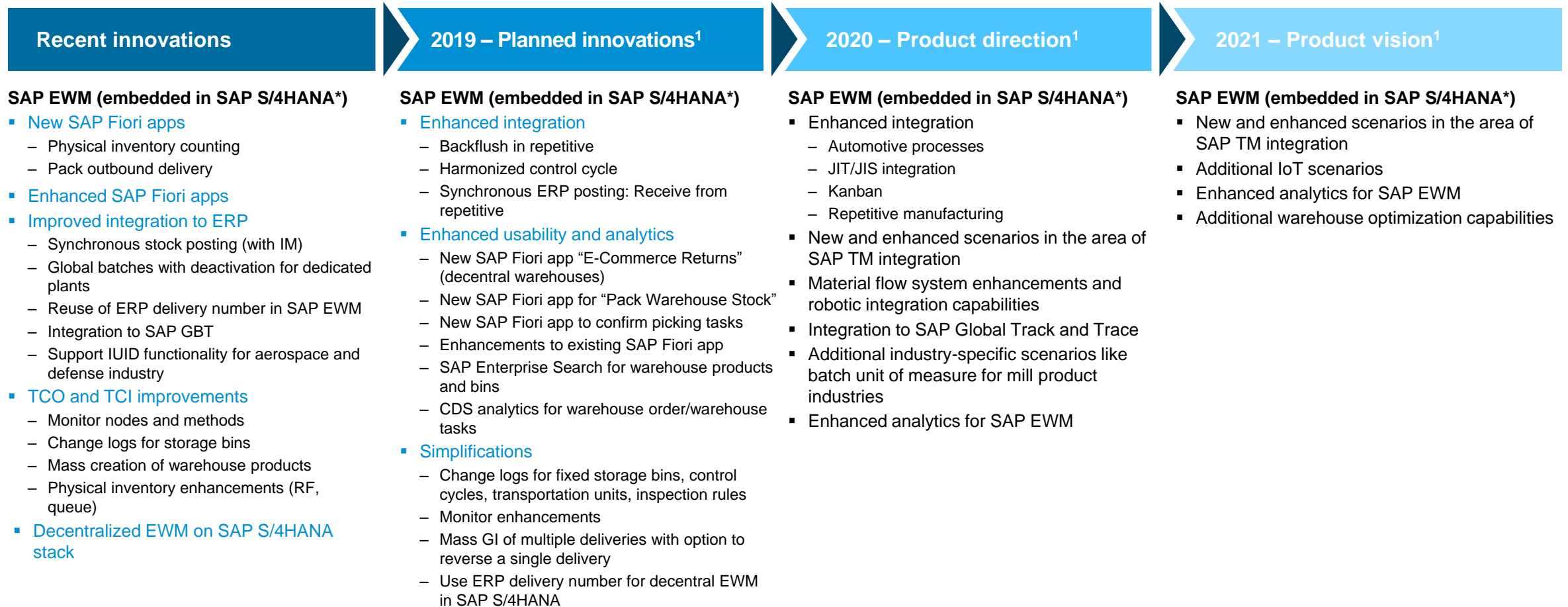
## LoB: Supply chain (3/5) – Logistics execution



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



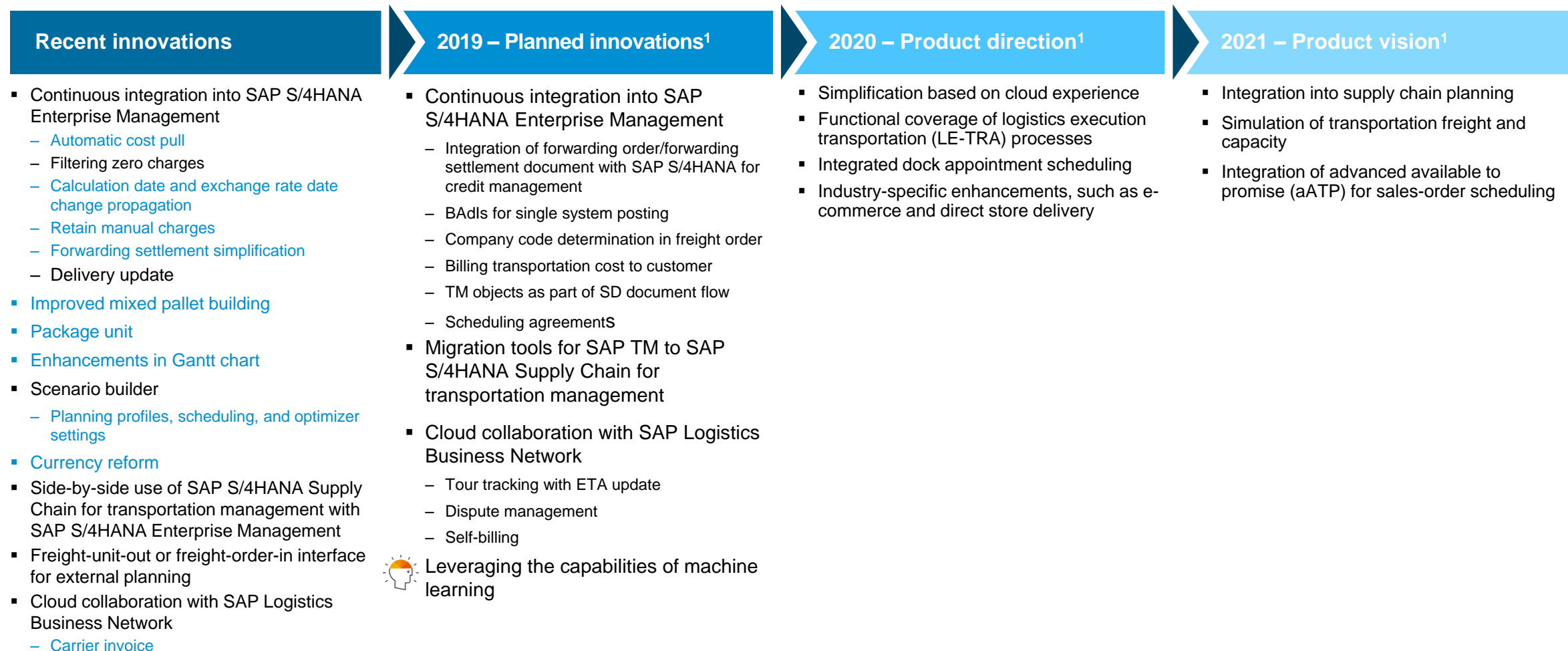
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\*SAP S/4HANA Supply Chain for extended warehouse management



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## LoB: Supply chain (5/5) – Transportation management



Leveraging the capabilities of machine learning



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## LoB: Sales (1/3)

### Recent innovations

#### Sales order management and processing

-  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)

#### Claims, 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 innovations<sup>1</sup>

#### Sales order management and processing

- Manage duplicate orders in SAP S/4HANA
- Approval status for sales documents in SAP S/4HANA
- Approval workflow for sales quotations in SAP S/4HANA
- Billing plan – whitelisted core data services views in SAP S/4HANA
- Automatically set delivery blocks for down payments with billing plans in SAP S/4HANA
- Enablement of mass changes for sales order items

#### Sales billing


- 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 direction<sup>1</sup>

#### 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 vision<sup>1</sup>

#### Sales order management and processing

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

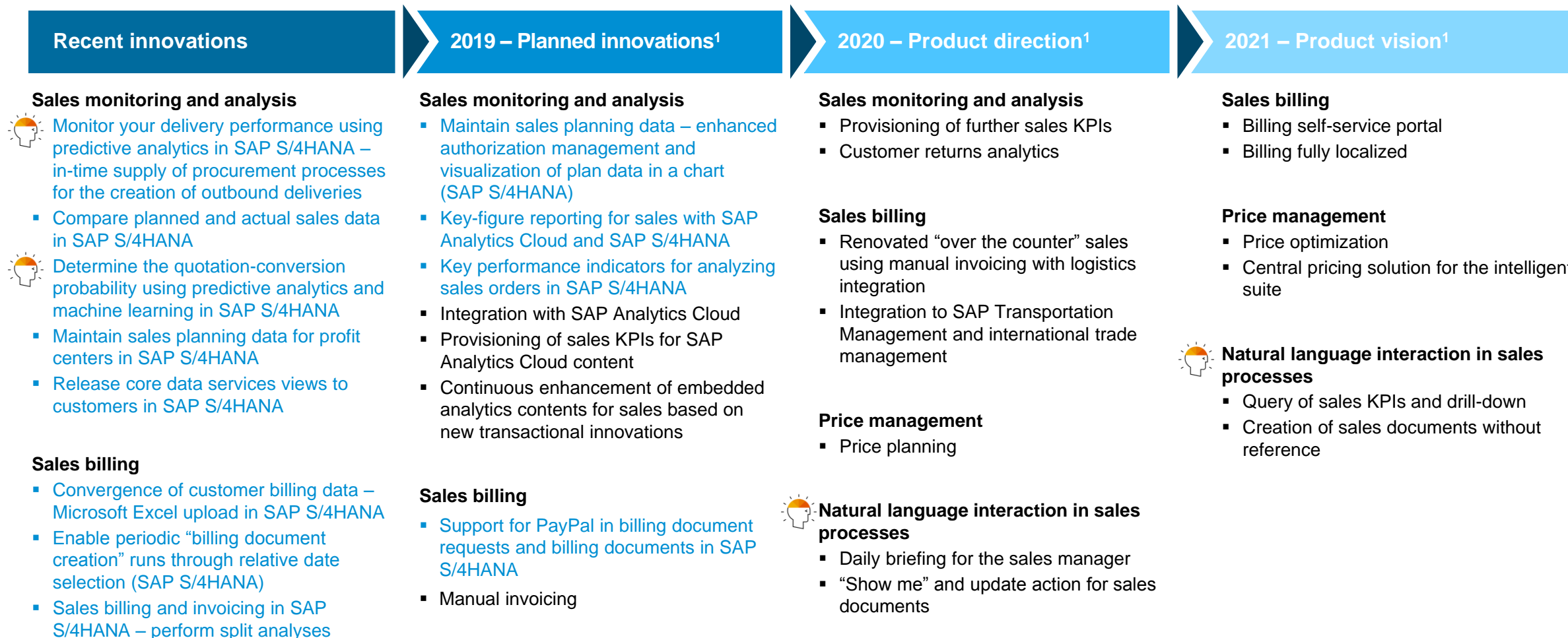
#### User experience for professional users

- 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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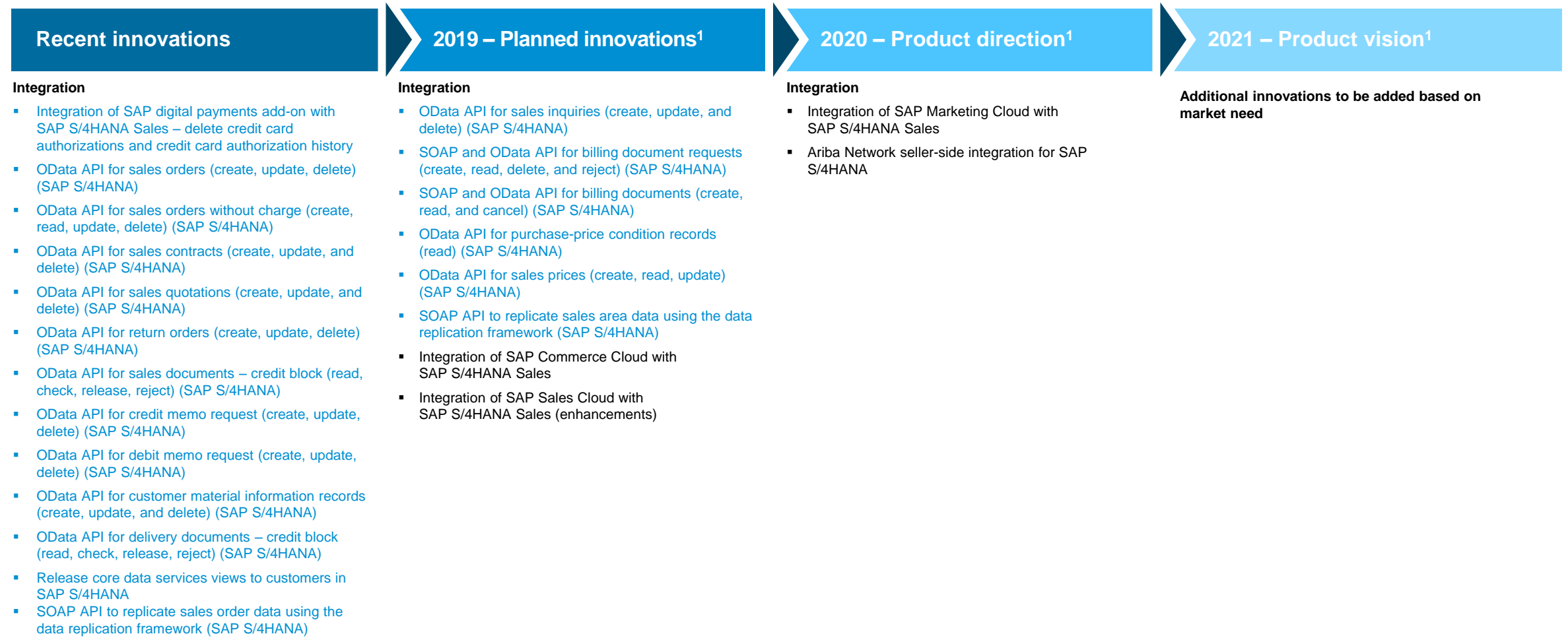
## LoB: Sales (2/3)



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## LoB: Sales (3/3)

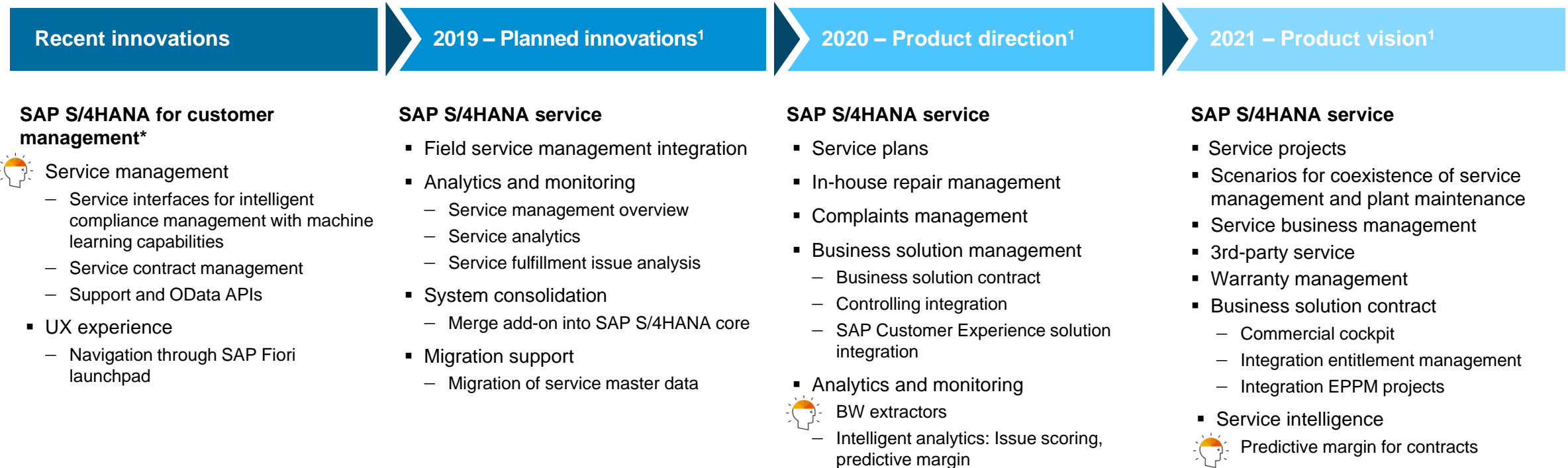


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# SAP S/4HANA

## LoB: Service



\*SAP S/4HANA for customer management 2.0 is an add-on to SAP S/4HANA 1809 FPS01

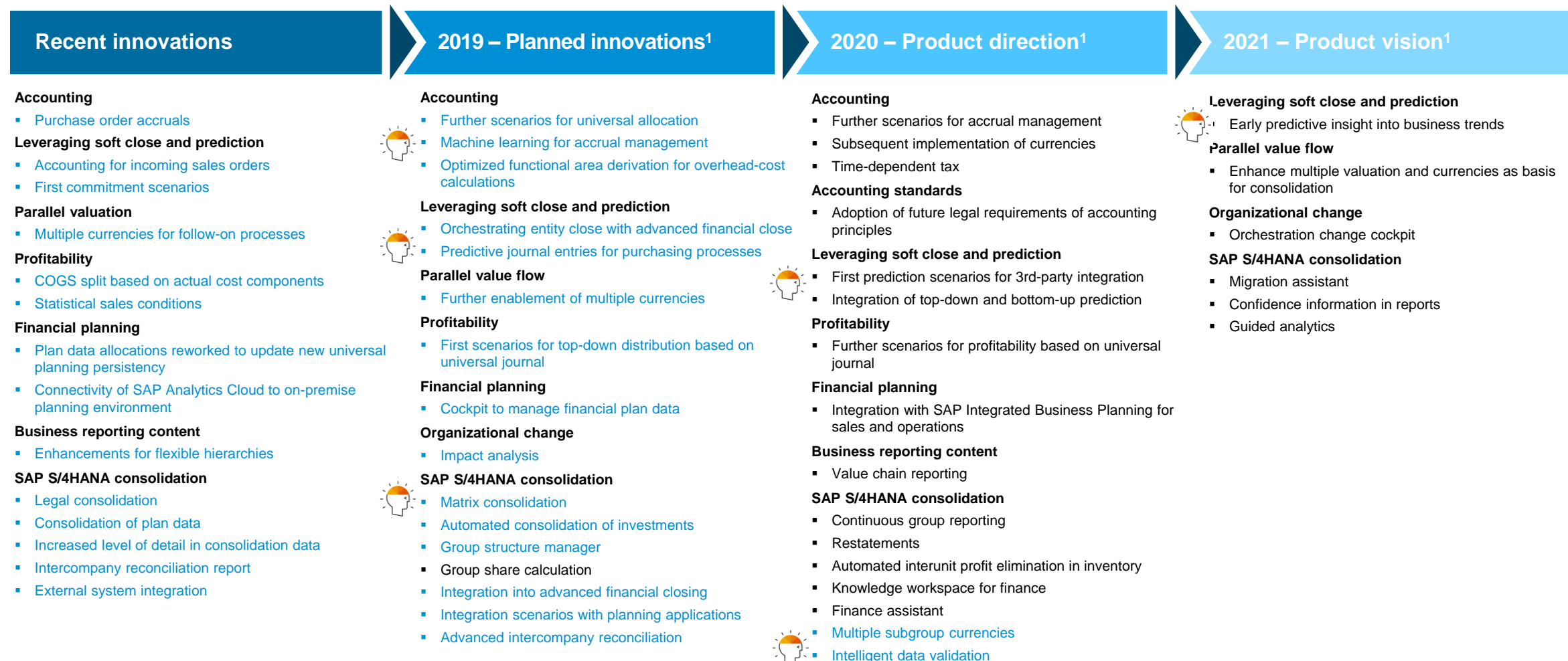
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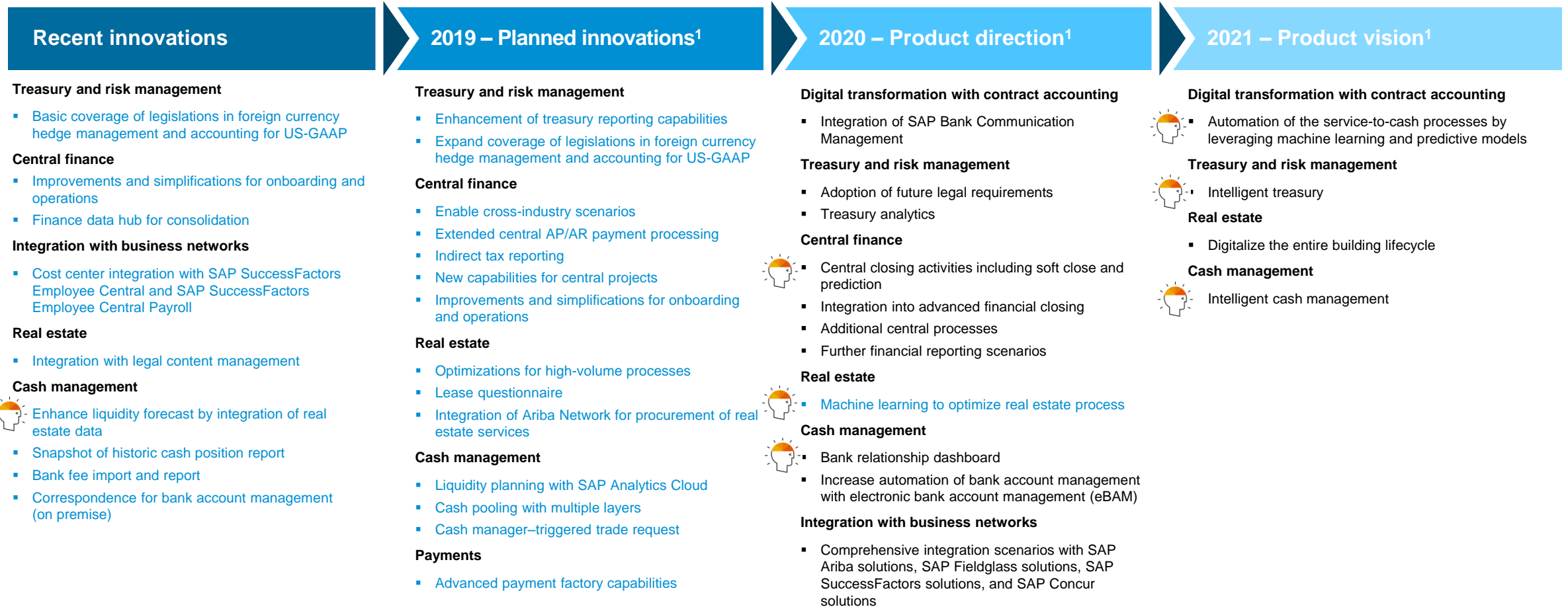
## LoB: Finance (1/4)



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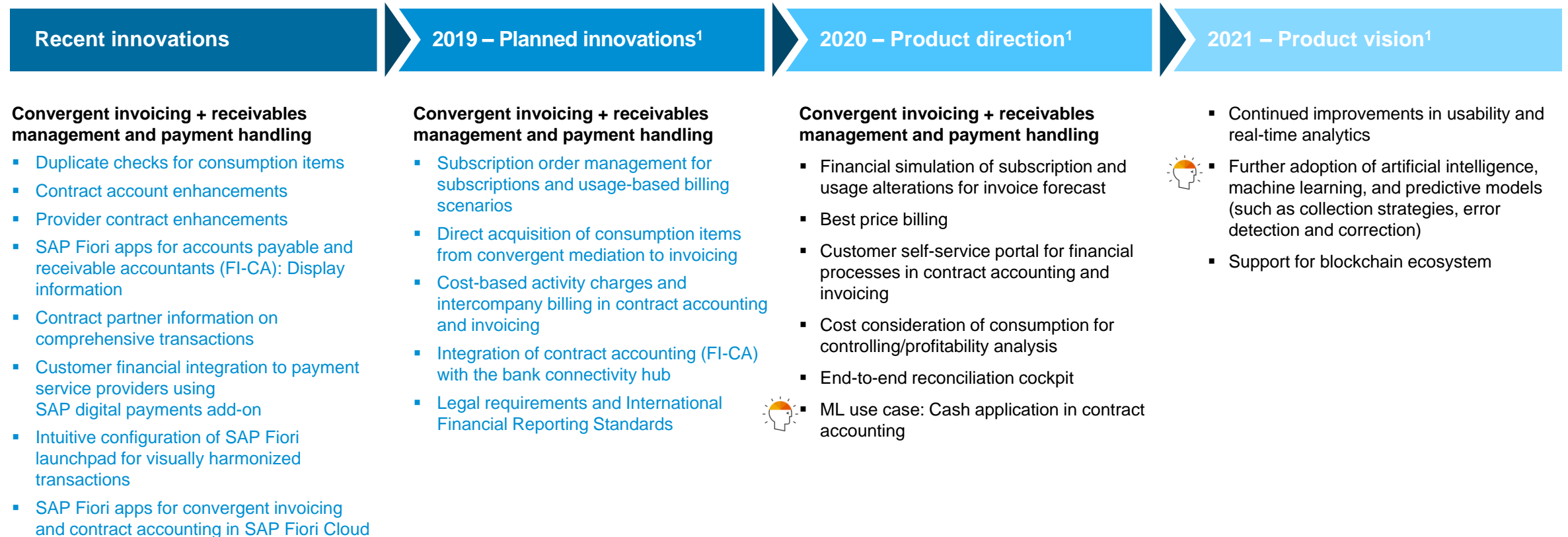
## LoB: Finance (2/4)



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# SAP S/4HANA

## LoB: Finance (3/4) – Subscription billing and revenue management

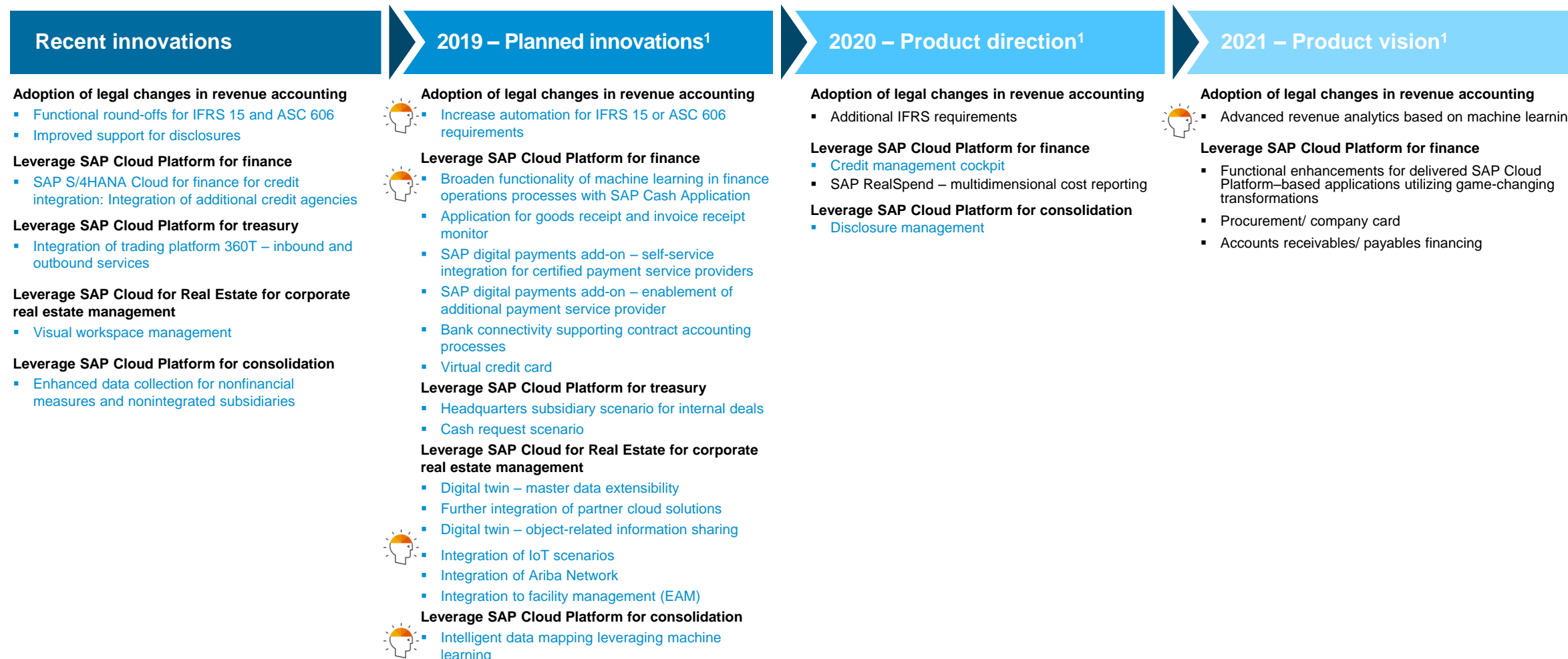


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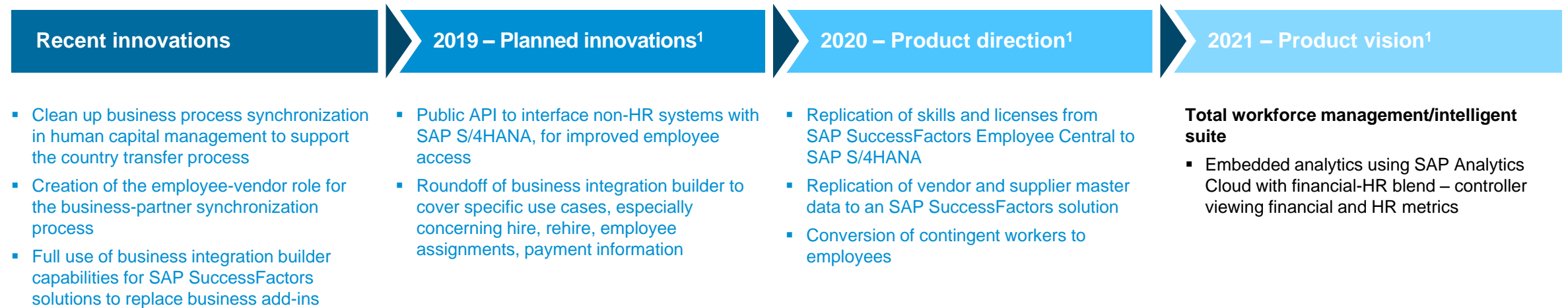
## LoB: Finance (4/4) – Extensions to the digital core



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# SAP S/4HANA

## LoB: Human resources



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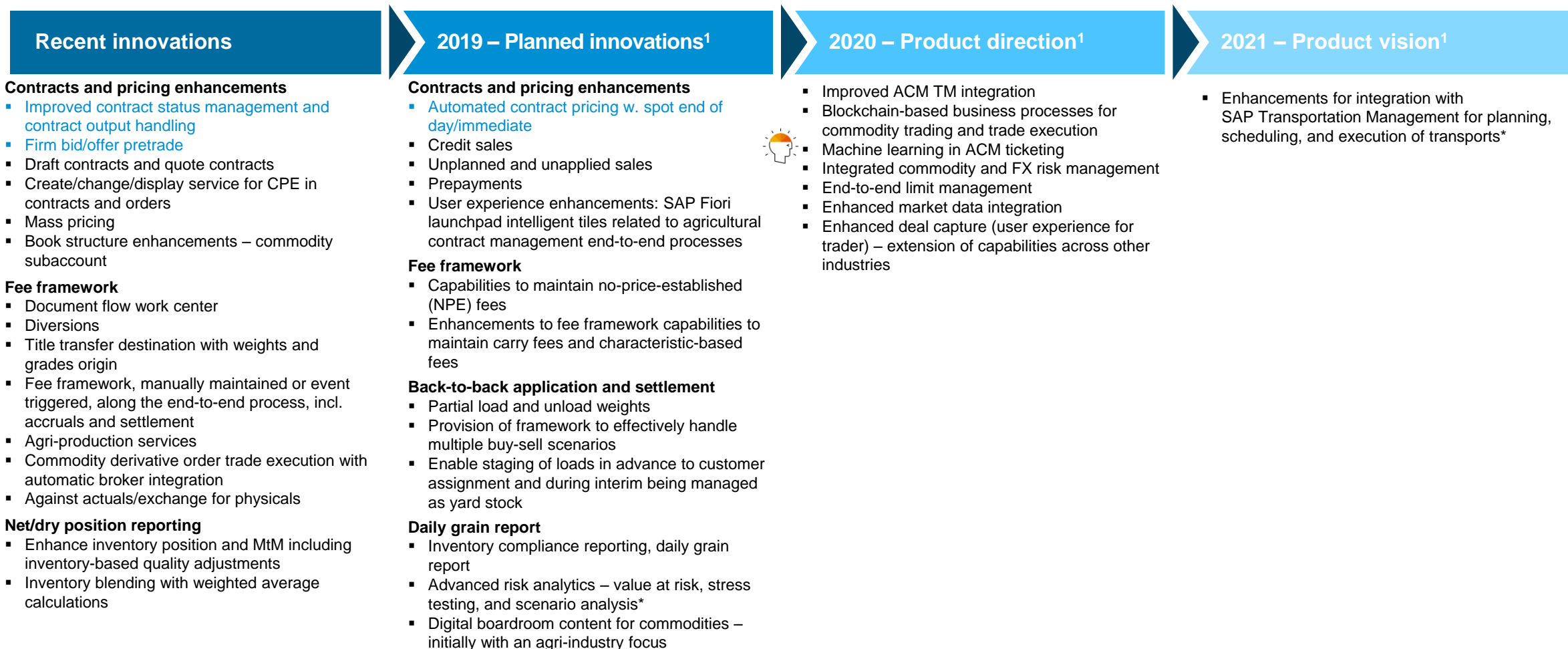
# Industries





# SAP S/4HANA

## Consumer industries – SAP Agricultural Contract Management



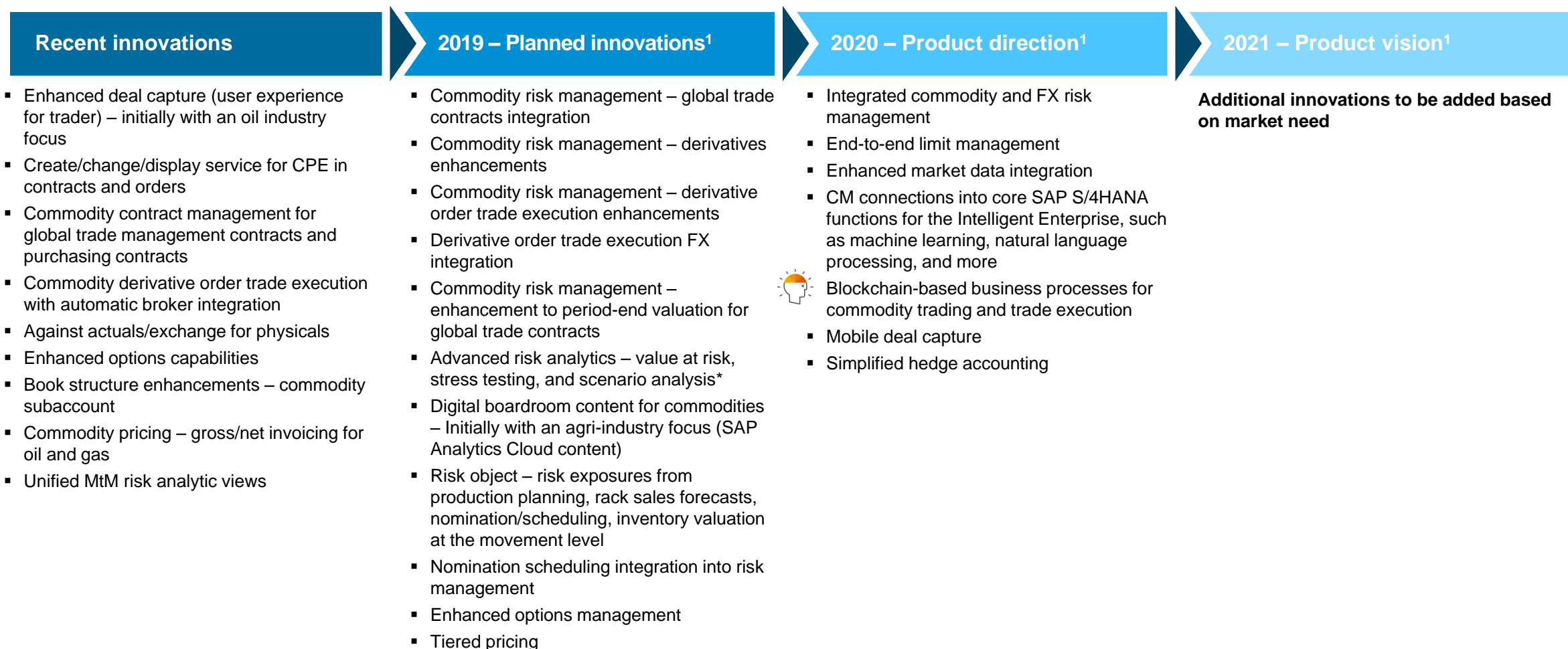
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\*Advanced risk analytics to be provided through a partner solution approach



# SAP S/4HANA

## Consumer industries – SAP Commodity Management and SAP Commodity Risk Management

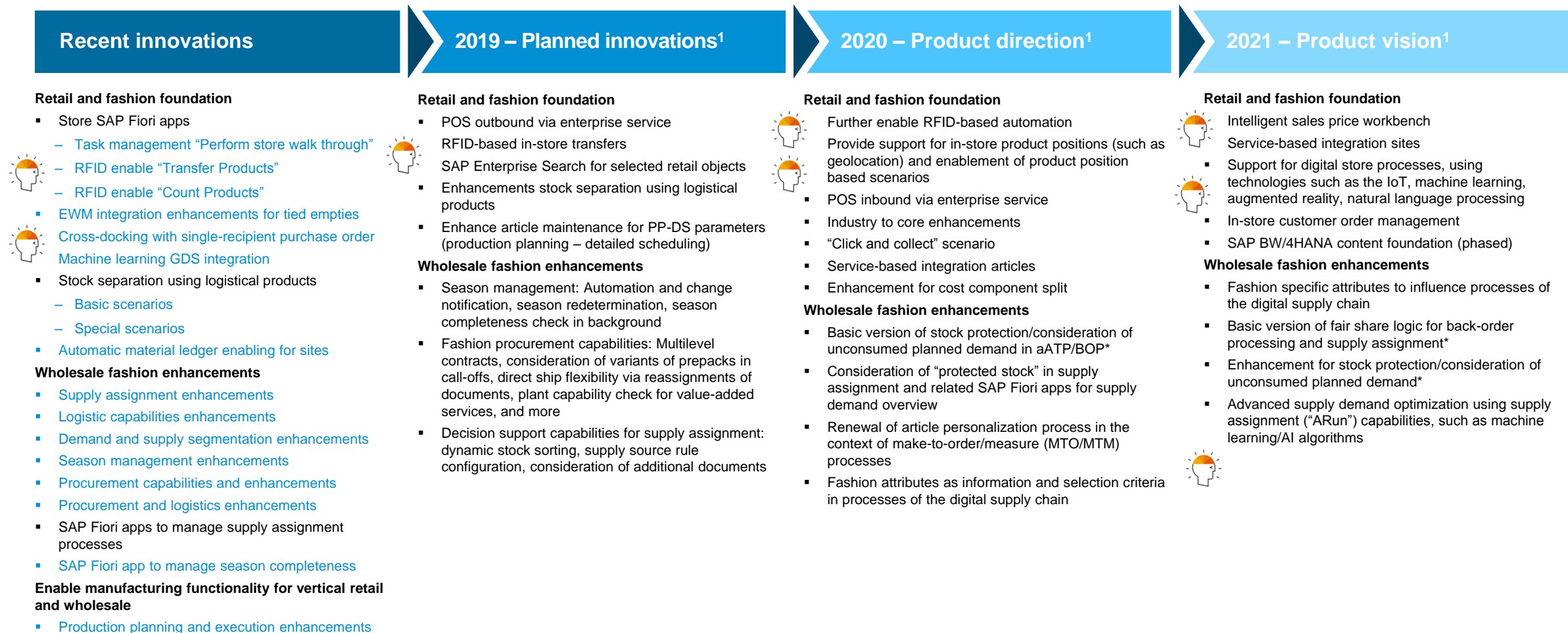


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\*Advanced risk analytics to be provided through a partner solution approach

# SAP S/4HANA

## Consumer industries – Retail and fashion



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\*Joined road map items with advanced ATP

# SAP S/4HANA

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

## Recent innovations

Please see next slide

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

### 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 EWM
- SAP CoPilot integration to just-in-time supply to customer
- Situation handling with machine learning 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

### SAP Project Manufacturing Management and Optimization

- Grouping, pegging, and distribution (GPD) is expected to be replaced by SAP Project Manufacturing Management and Optimization with its improved data granularity and enhanced capabilities. GPD is part of SAP S/4HANA and is expected to migrate to SAP Project Manufacturing Management and Optimization over time to ensure a smooth transition.
- PMMO foundation
- API grouping master data mass update
- Enhanced data structures including key data types for supporting subsequent releases
- 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)

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

## 2021 – Product vision<sup>1</sup>

### Just-in-time processing



- Further machine learning scenarios for just-in-time supply to customer

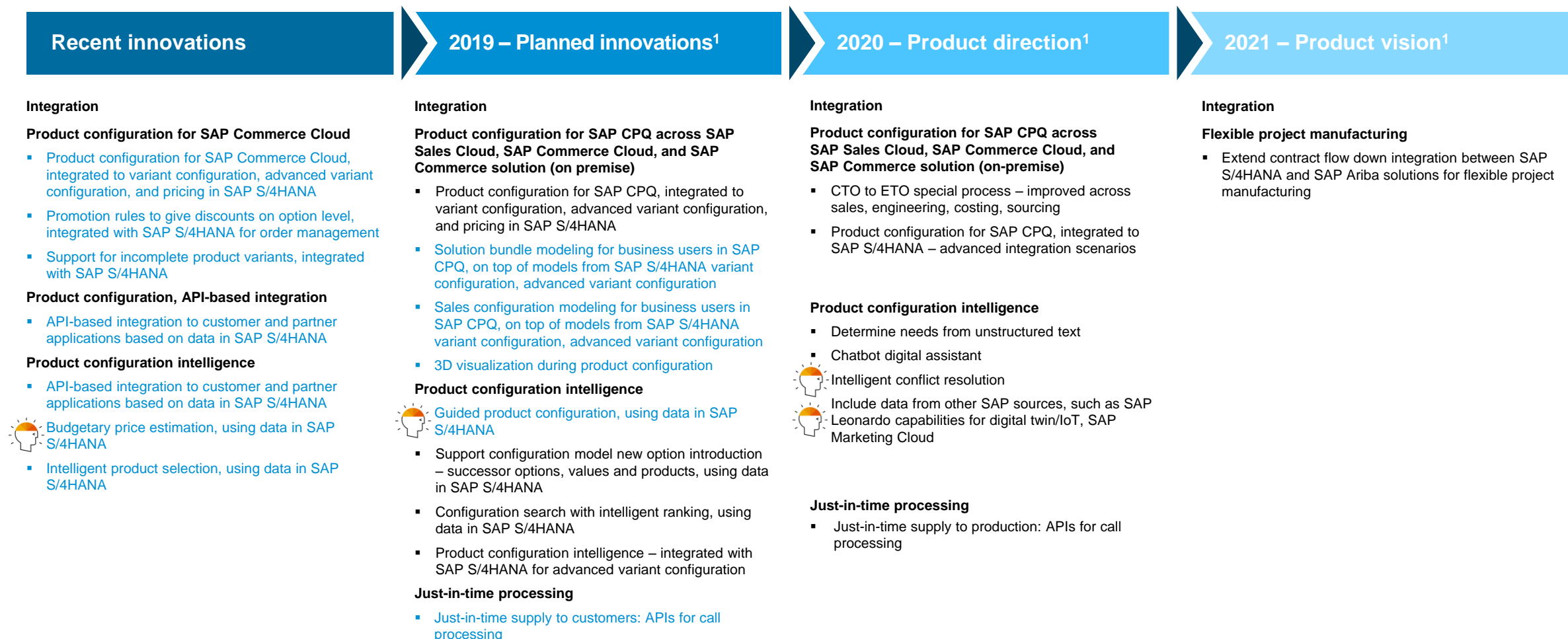
### SAP Project Manufacturing Management and Optimization

- ML and advanced technology-based business services to enable:
  - Simulative cost distribution
  - Simulative/on-demand pegging engine, such as for part shortage analysis
  - What-if modeling and predictive/ML insights across finance and logistics
  - Real-time insights to better enable cost distribution analytics or earned value (EVM) project monitoring
  - Business performance and risk-based evaluations
- Enhancements for production order split
- Conversion from classic GPD
- Integration with PP/DS and EWM
- Archiving

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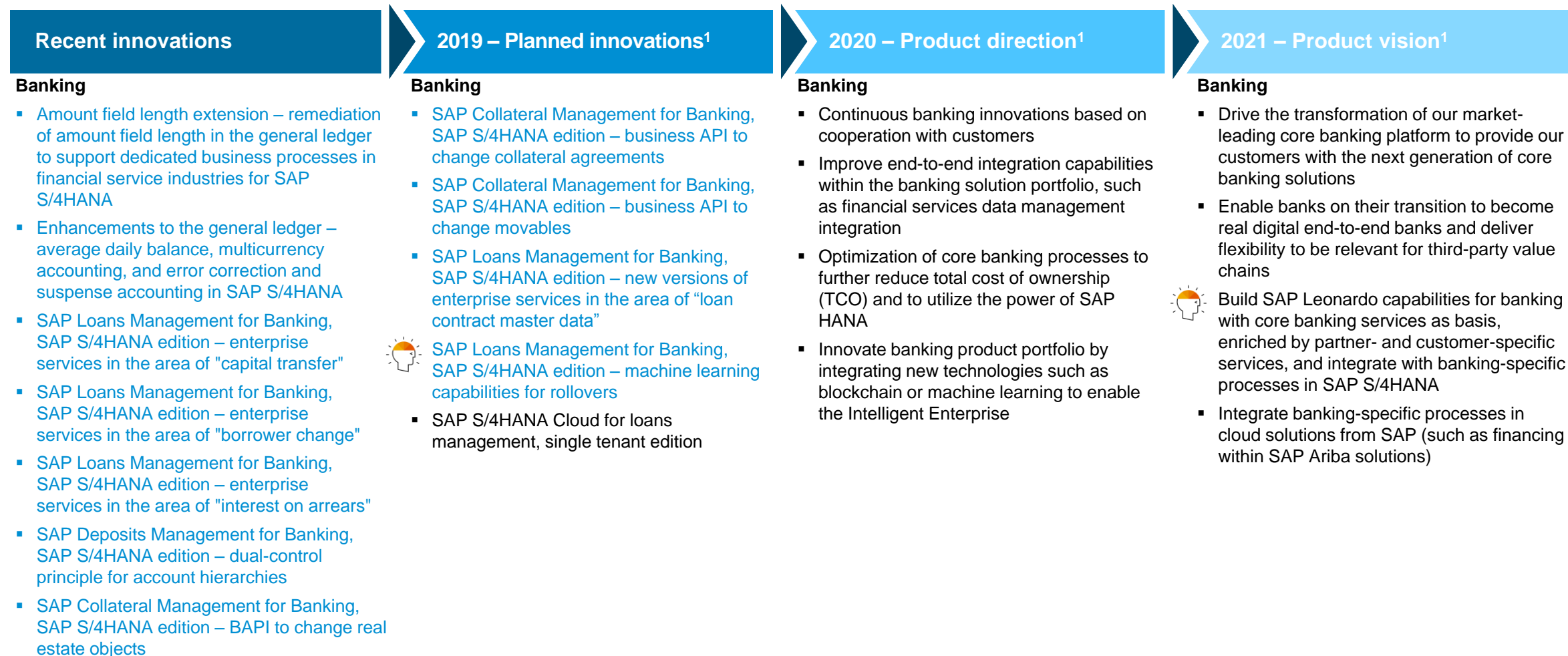
Discrete industries – Automotive, aerospace and defense, industrial machinery and components, high tech (2/2)



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# SAP S/4HANA

## Financial services – Banking



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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 CDS views for reinsurance
- SAP Profitability and Performance Management sample content for carbon footprint management
- SAP Profitability and Performance Management sample content for the high-tech industry
- Group insurance as a part of SAP S/4HANA Insurance for policy management
- Enablement of coinsurance for policy management
- Remote-enabled function modules for cash-before-cover activities in SAP S/4HANA Insurance for policy management, auto line of business
- Subledger accounting for financial products for insurance companies using SAP S/4HANA


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

#### Insurance

- Quotations and underwriting for insurance
- New functional FS-RI modules such as ‘risk accumulation management’
- SAP Profitability and Performance Management sample content for several industries (such as discrete industries, public services, energy and natural resources)
- SAP Profitability and Performance Management sample content for Solvency II
- Balance sheet simulation for SAP S/4HANA for financial products subledger
- Profit and loss fixing in SAP S/4HANA for financial products subledger
- Balance sheet forecasting for SAP S/4HANA for financial products subledger
- SAP Fiori app enabling analysis of changes in insurance liabilities for financial products subledger
- End-to-end scenarios for international auto insurance product spanning from SAP Commerce Cloud across quotation management down to policy management in SAP S/4HANA
- Integrated change business process with underwriting capabilities based on FS-PQM and FS-PM


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

#### Insurance

- Make SAP S/4HANA Cloud for insurance, single-tenant edition, the natural choice for insurance
- Evolve the financial products subledger from SAP toward financial steering (for example, 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, 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 insurance sales agent and customer solutions

### 2021 – Product vision<sup>1</sup>

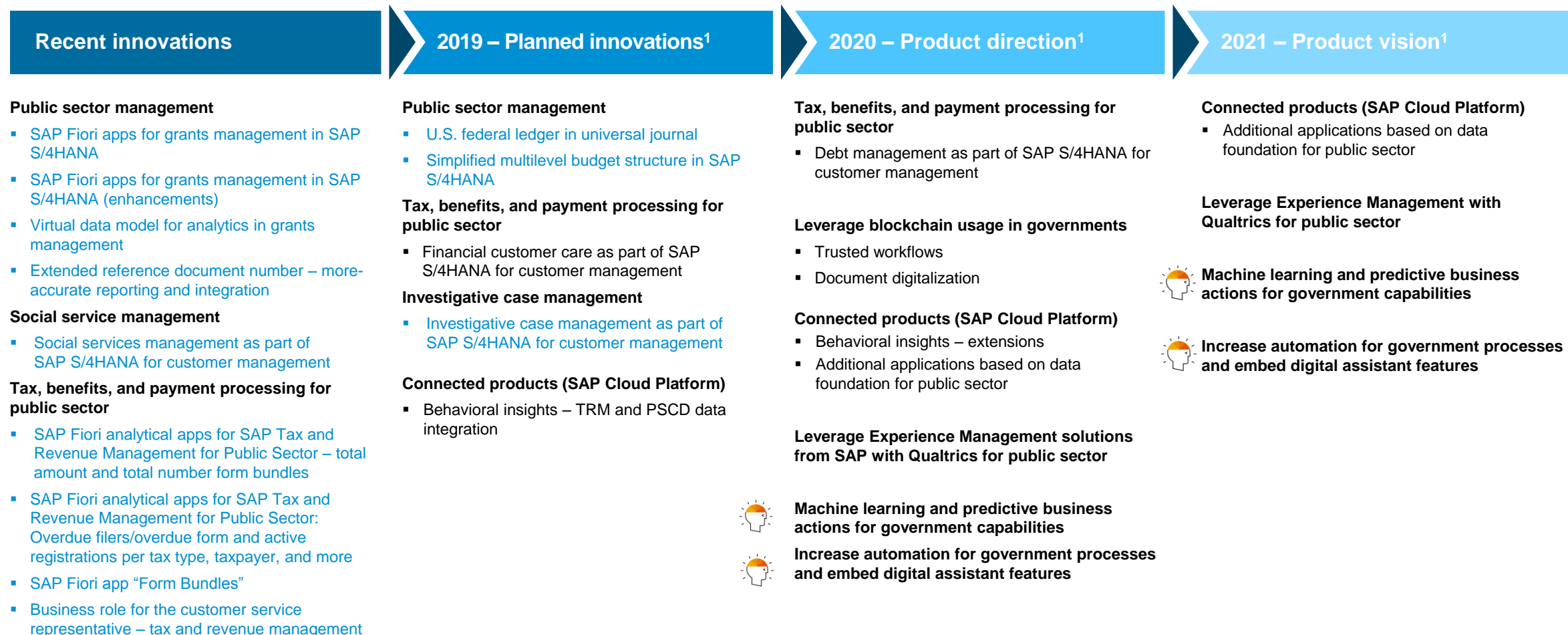
#### Insurance

-  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 LoB solutions from SAP

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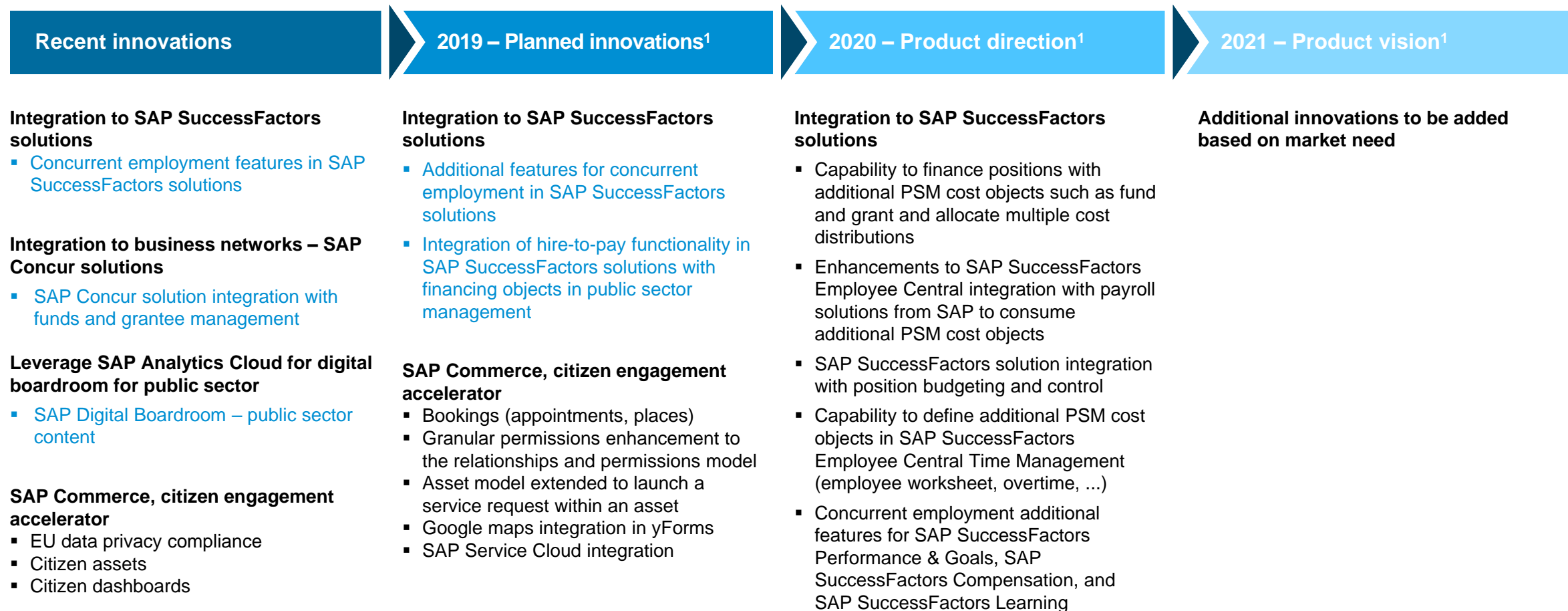
## Public services – Public sector (1/2)



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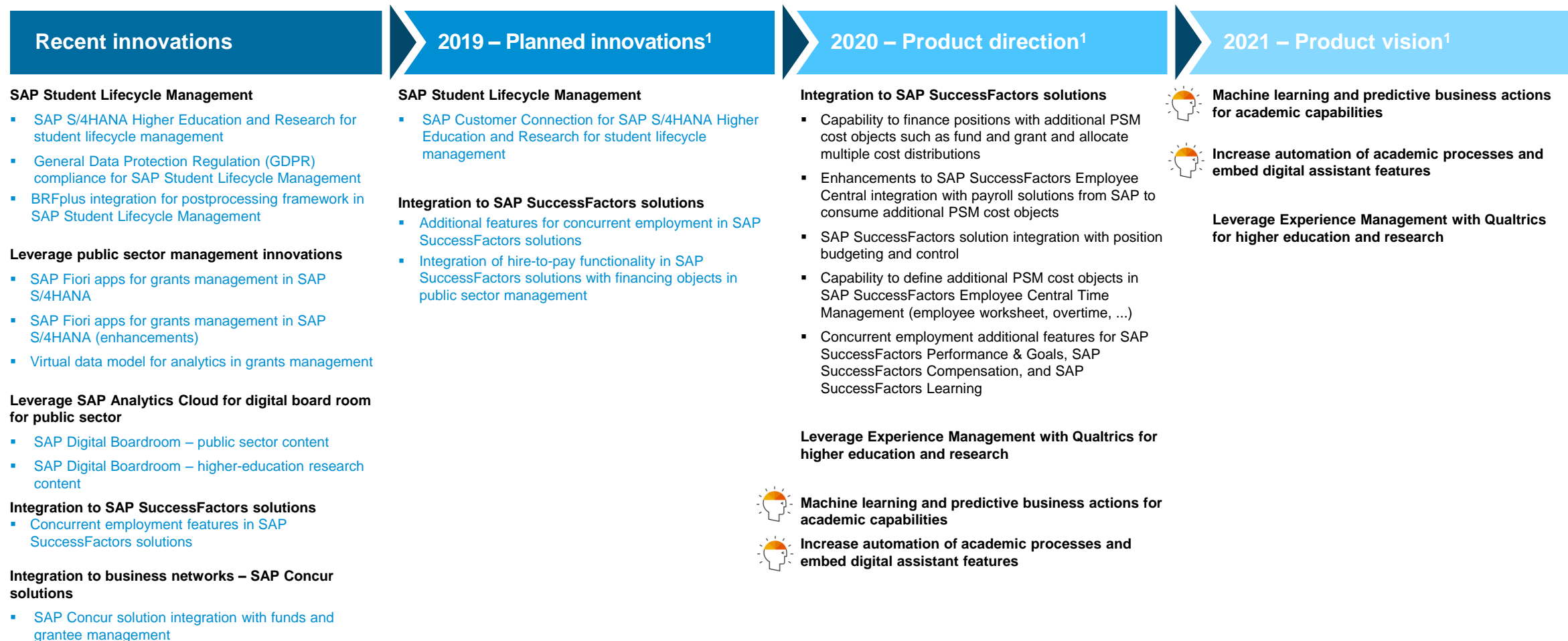
## Public services – Public sector (2/2)



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## Public services – Higher education and research (HE&R)



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# SAP S/4HANA

## Public services – Defense and security

### Recent innovations



#### SAP S/4HANA for extended warehouse management, explosives management edition

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



#### SAP S/4HANA for extended warehouse management, explosives management edition, EWM decentralized

- Enablement of “item unique identification” (iUID) in the relevant processes and tables of decentralized SAP EWM
- Automated dynamic bin creation and management in decentralized 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

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

#### 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

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

#### 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 vision<sup>1</sup>

#### 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

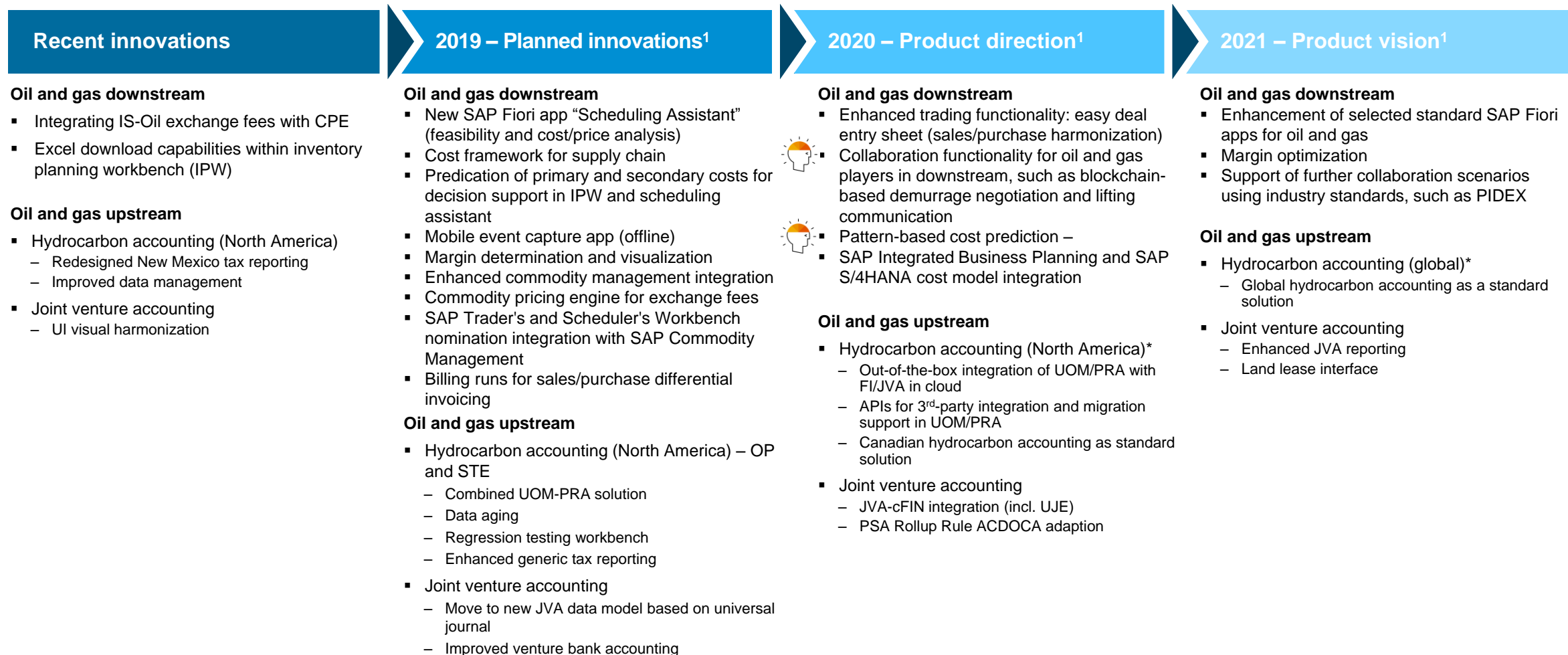


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## Energy and natural resources (1/2) – Oil and gas

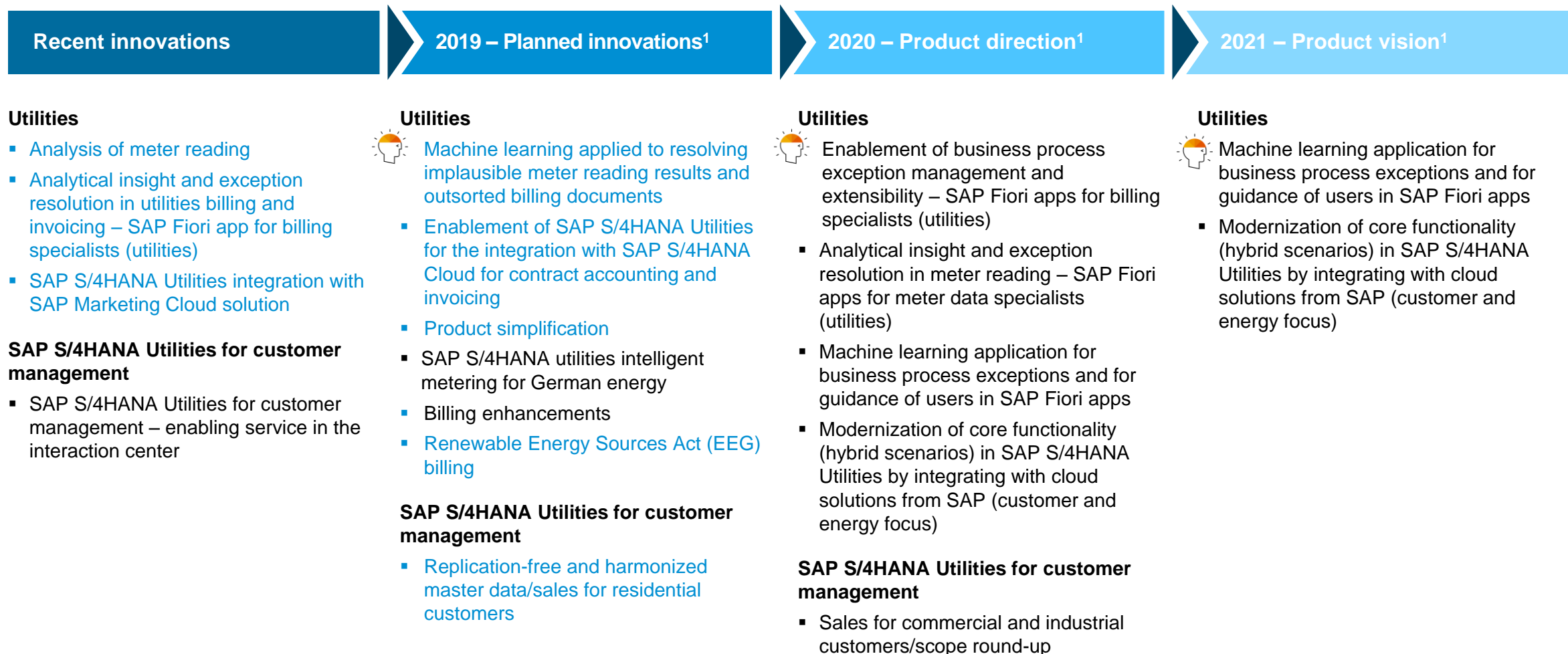


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\*Subject to customer commitment

# SAP S/4HANA

## Energy and natural resources (2/2) – Utilities



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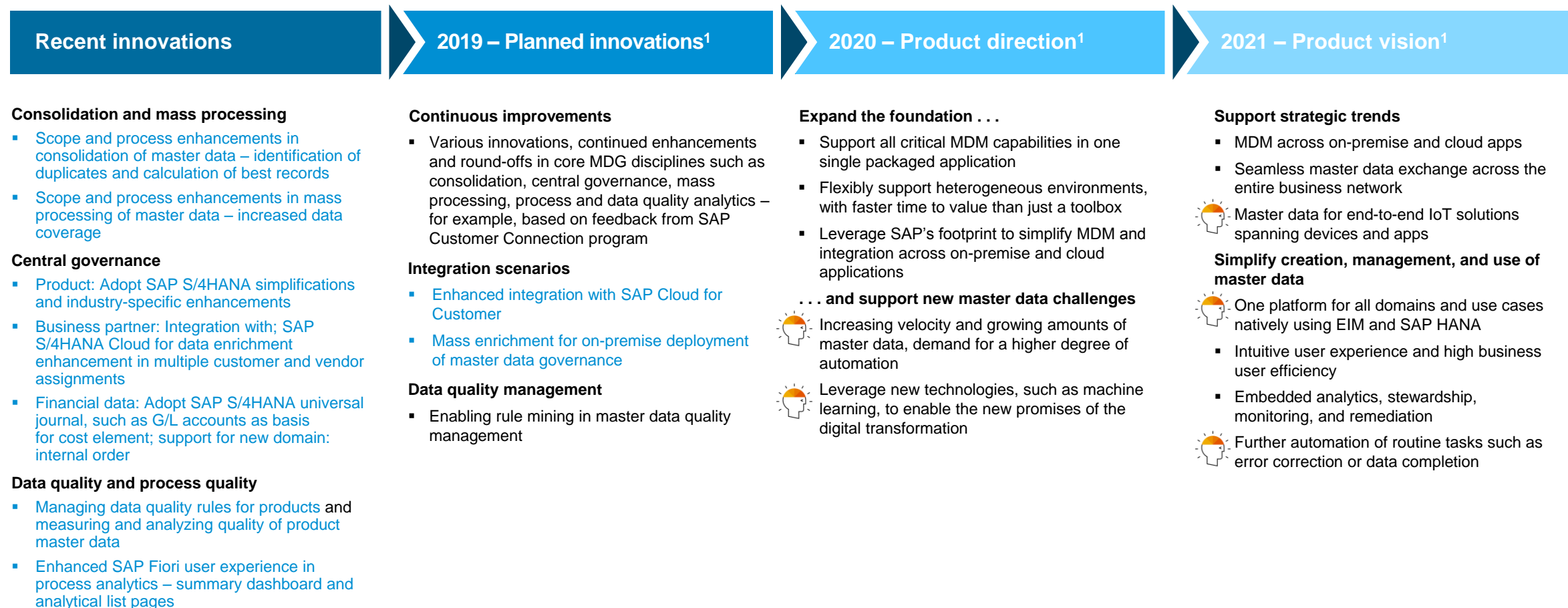
# Cross-Topics





# SAP S/4HANA

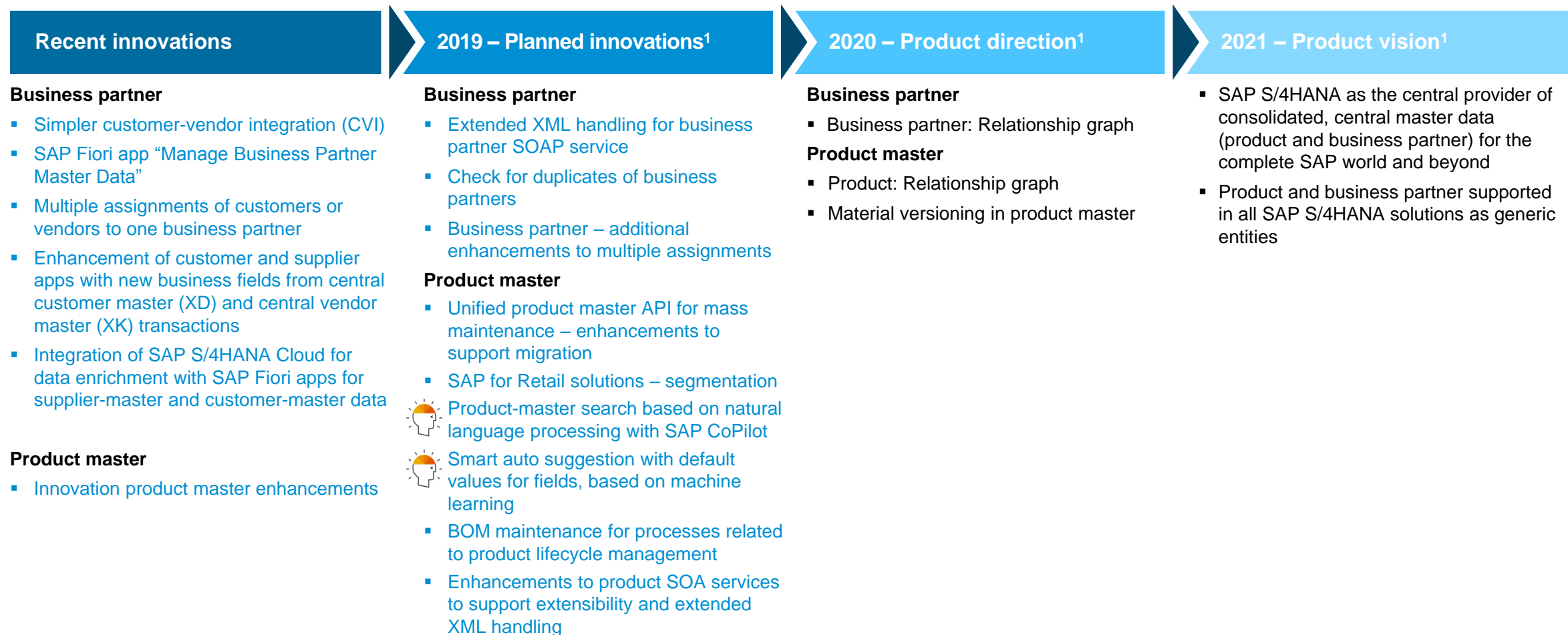
## Master data management (1/2) – Master data governance



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

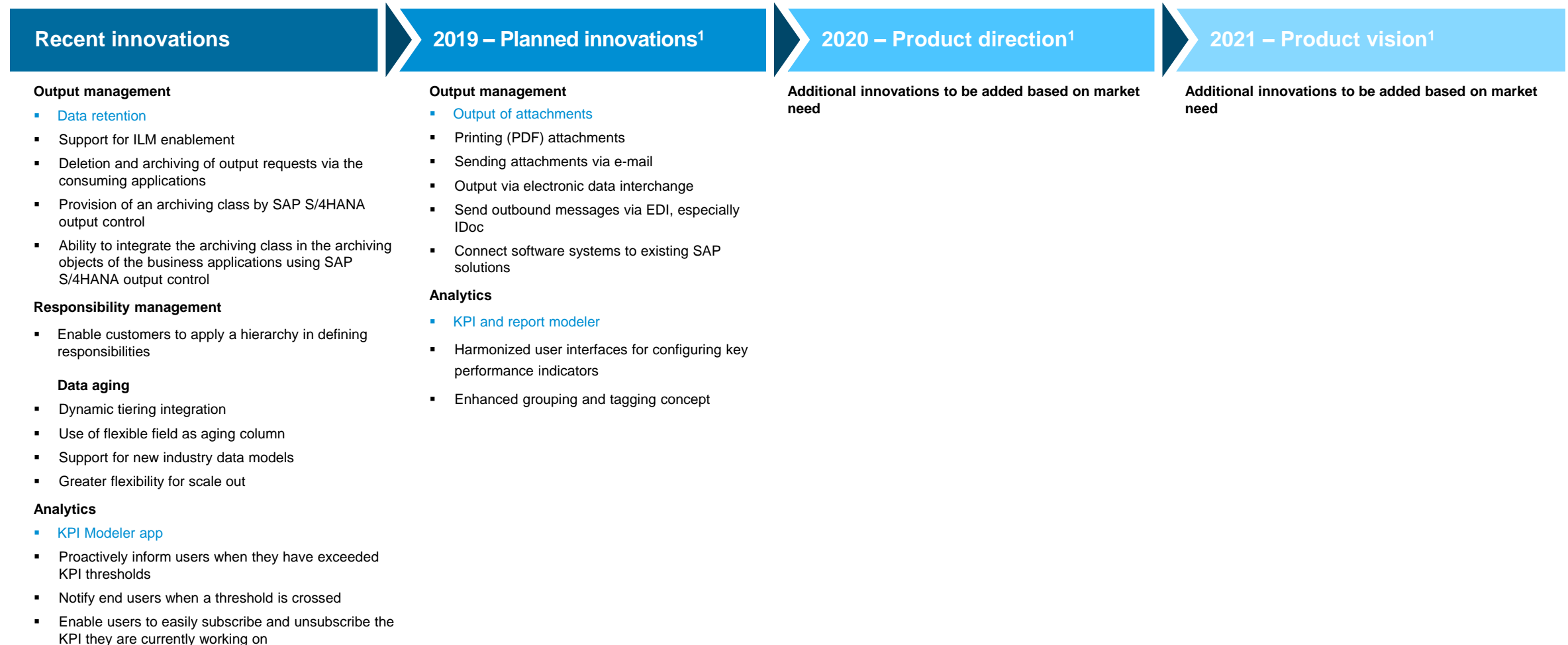


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# SAP S/4HANA

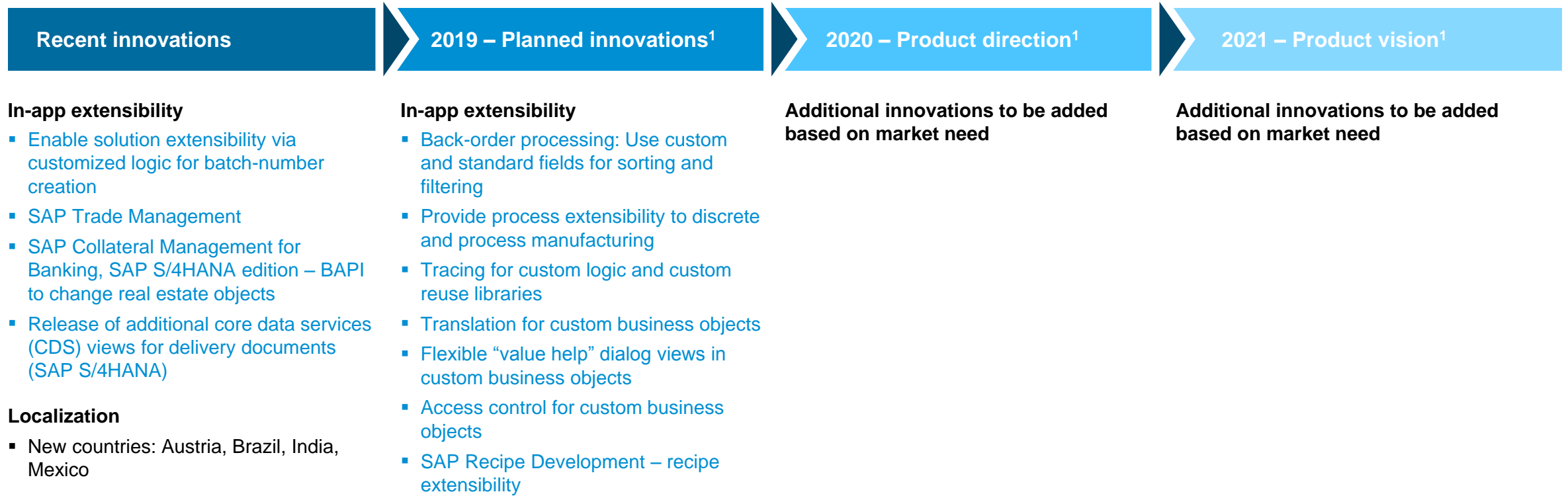
## Foundation, analytics



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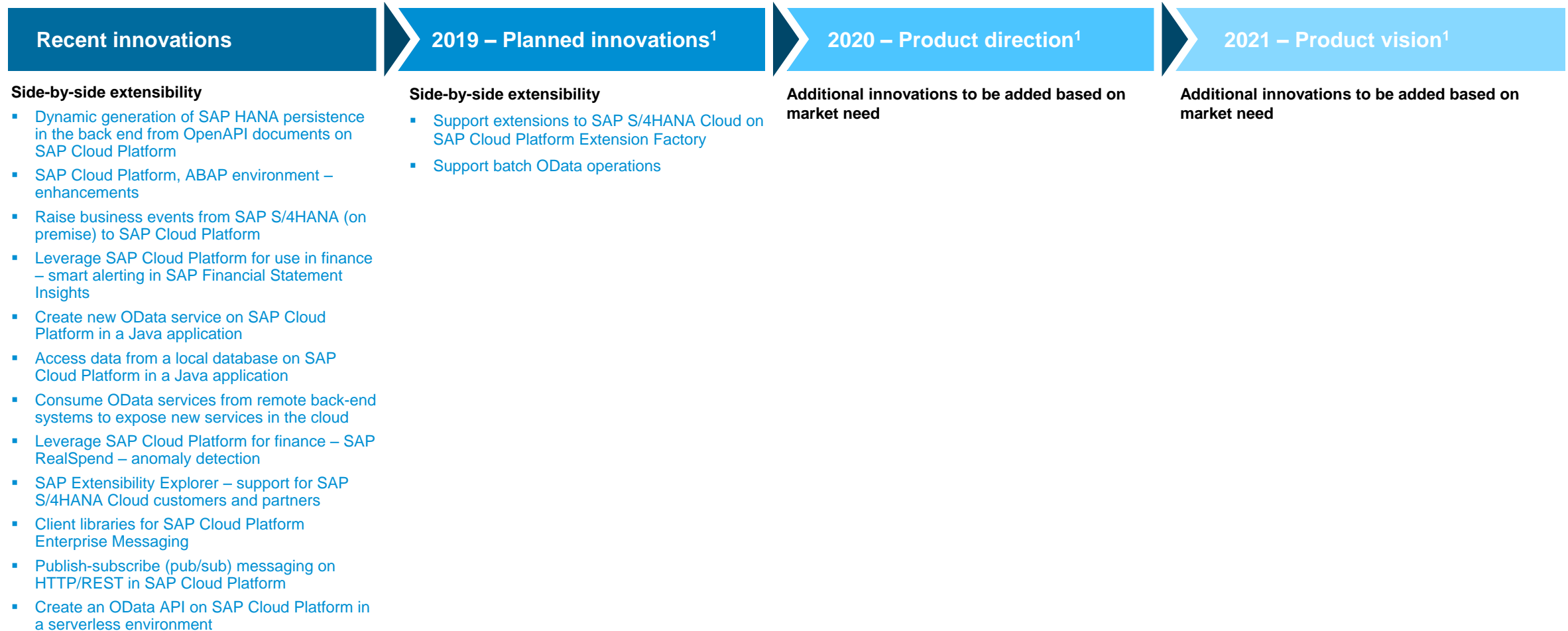
## Extensibility (1/4), localization



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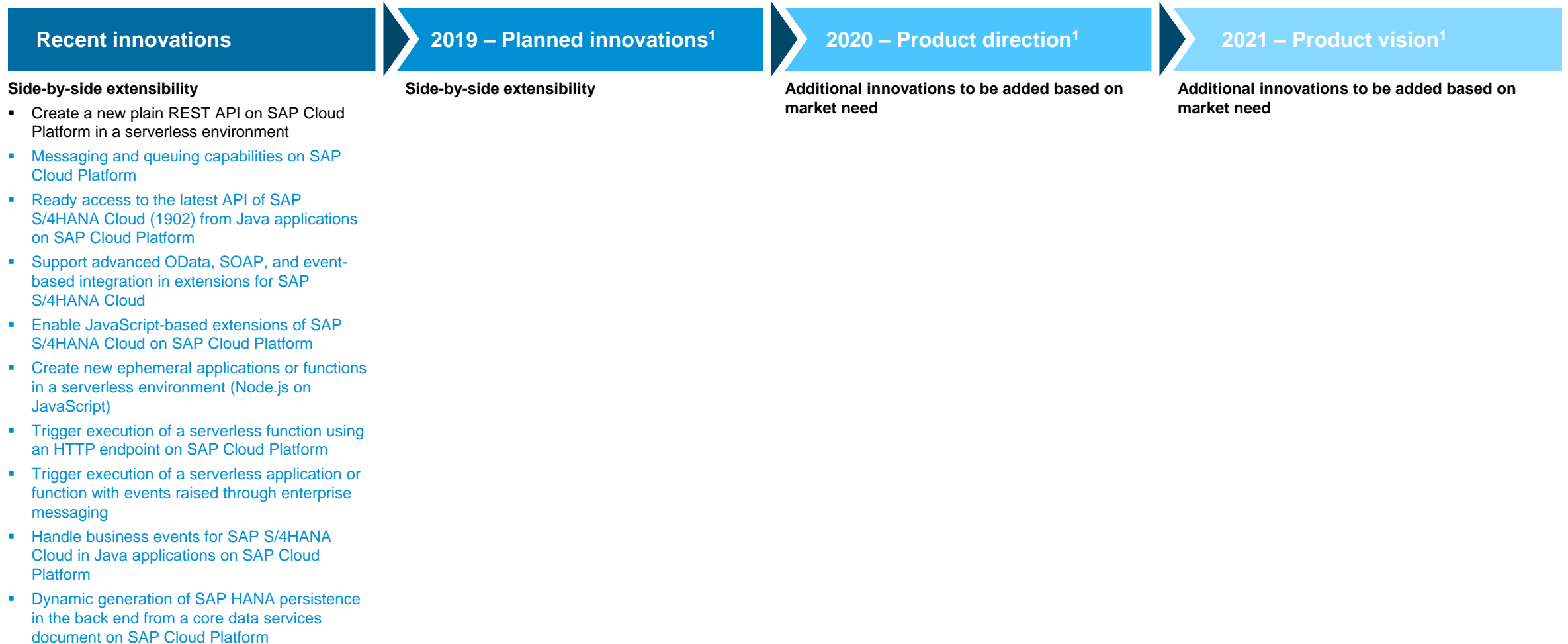
## Extensibility (2/4)



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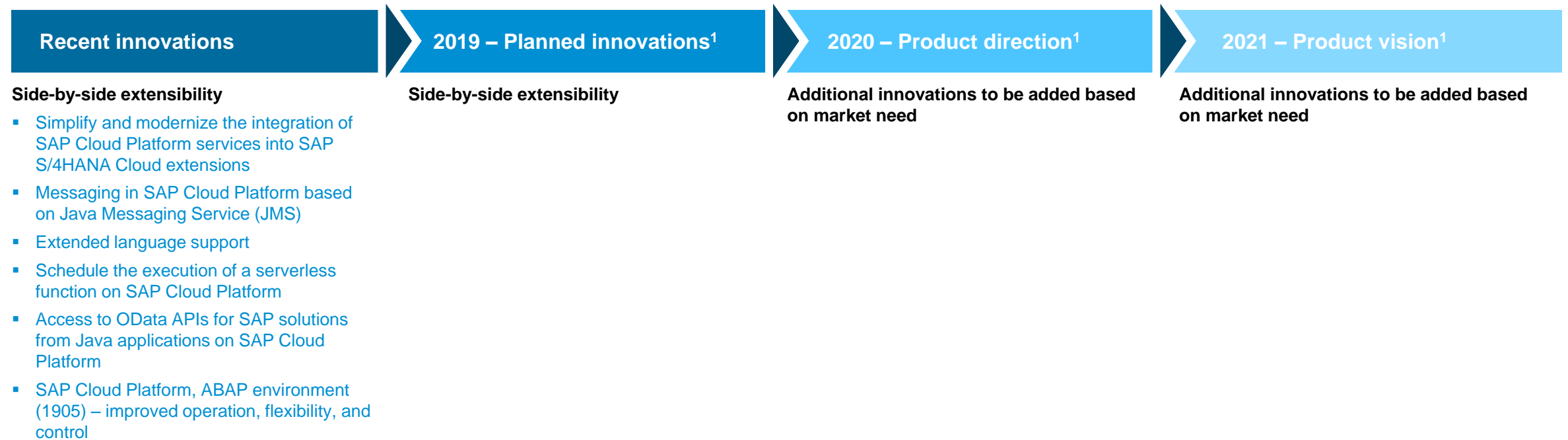
## Extensibility (3/4)



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## Extensibility (4/4)

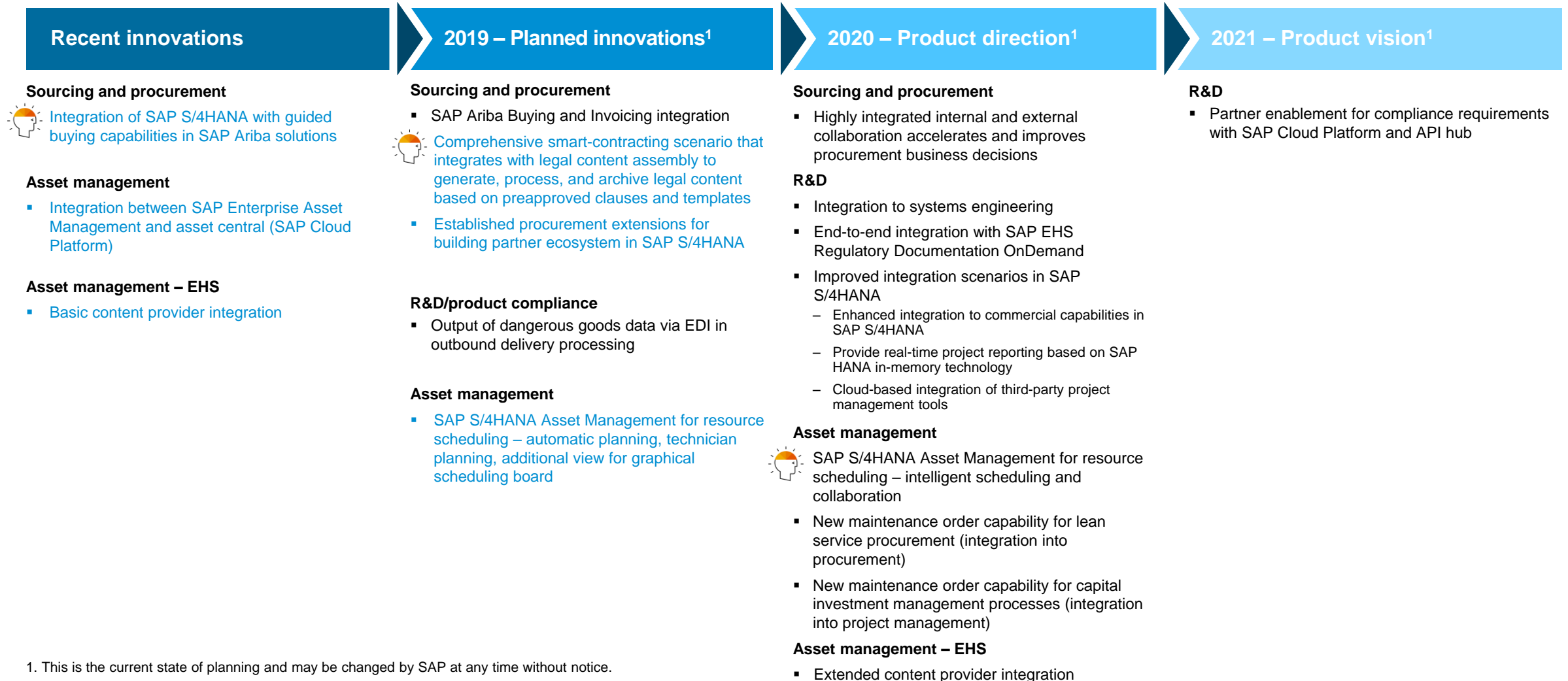


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# SAP S/4HANA

## 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
- 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
  - Service order management
  - [Forwarding settlement simplification](#)
- SAP TM – cloud collaboration with SAP Logistics Business Network
  - [Carrier invoice](#)

#### Service



- Service order management
  - Service interfaces for intelligent compliance management with machine learning capabilities

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

#### 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 TM – freight-unit-out and freight-order-in interface
- SAP TM – direct TM-EWM integration
- SAP TM – cloud collaboration with SAP Logistics Business Network
  - Tour tracking with ETA update
  - Dispute management
  - Self-billing

#### Service

- Field service integration

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

#### 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
- 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



#### Service

- Business solution management
  - SAP Customer Engagement solutions integration

### 2021 – Product vision<sup>1</sup>

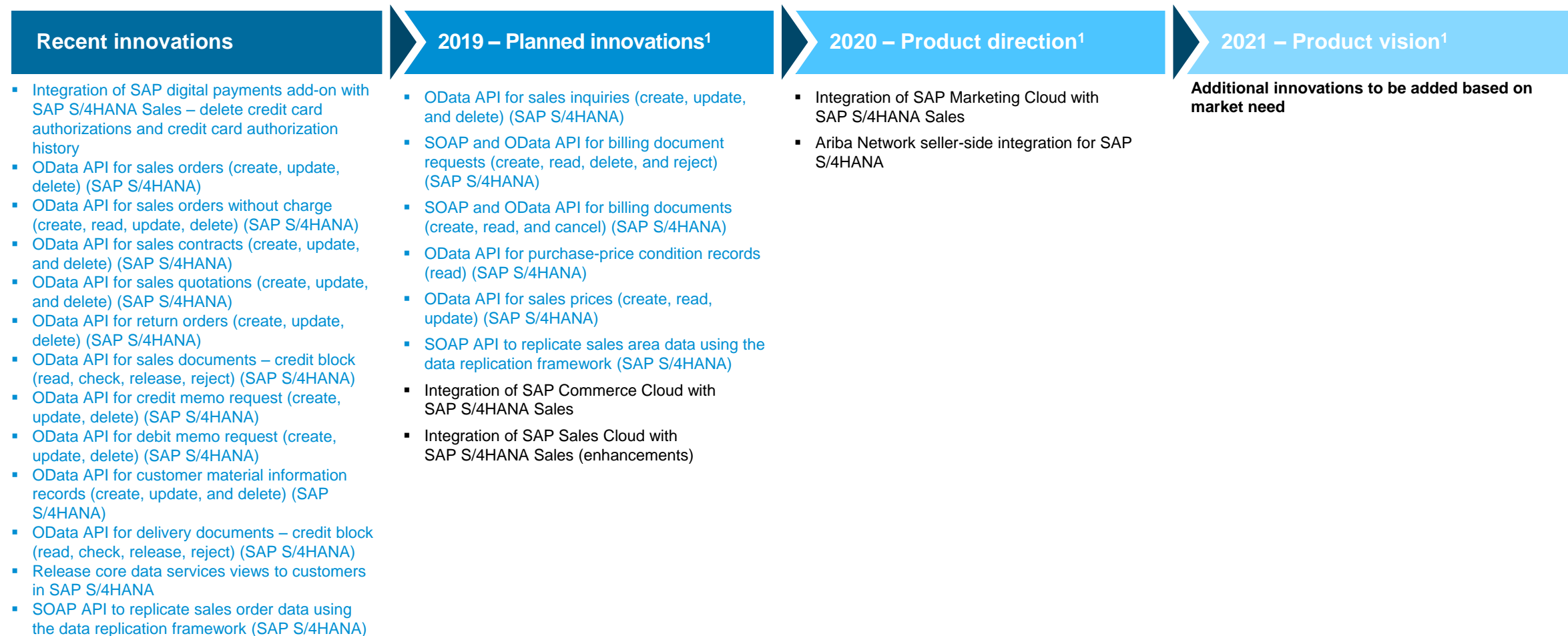
#### Service – customer management

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

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# SAP S/4HANA

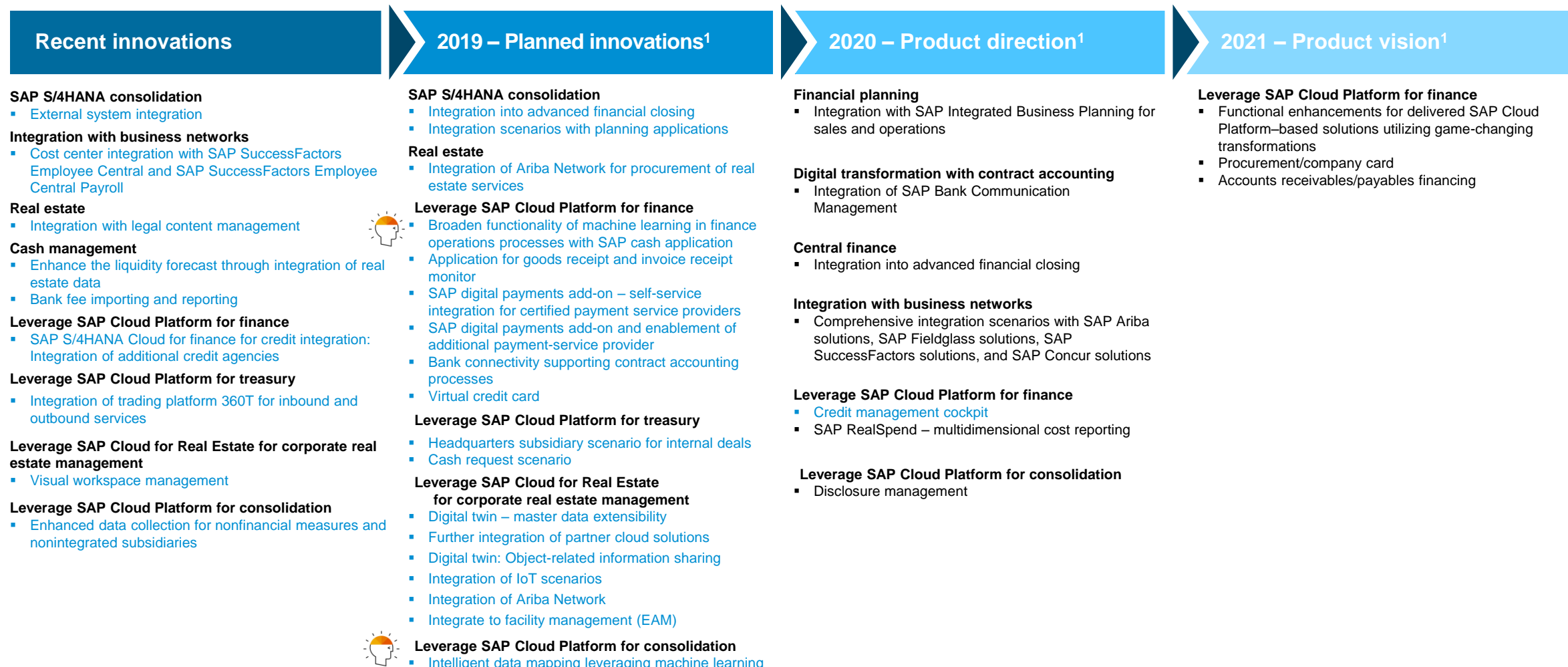
## Integration (3/11) – Sales



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# SAP S/4HANA

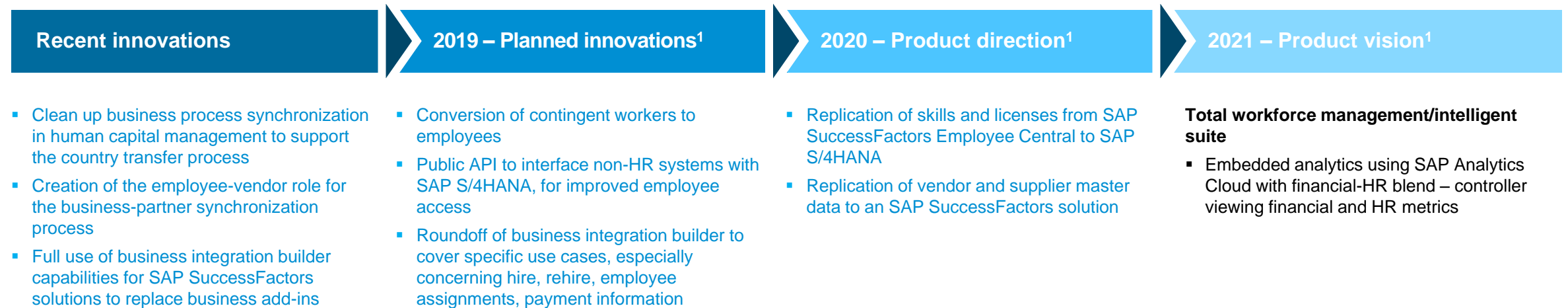
## Integration (4/11) – Finance



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## Integration (5/11) – Human resources

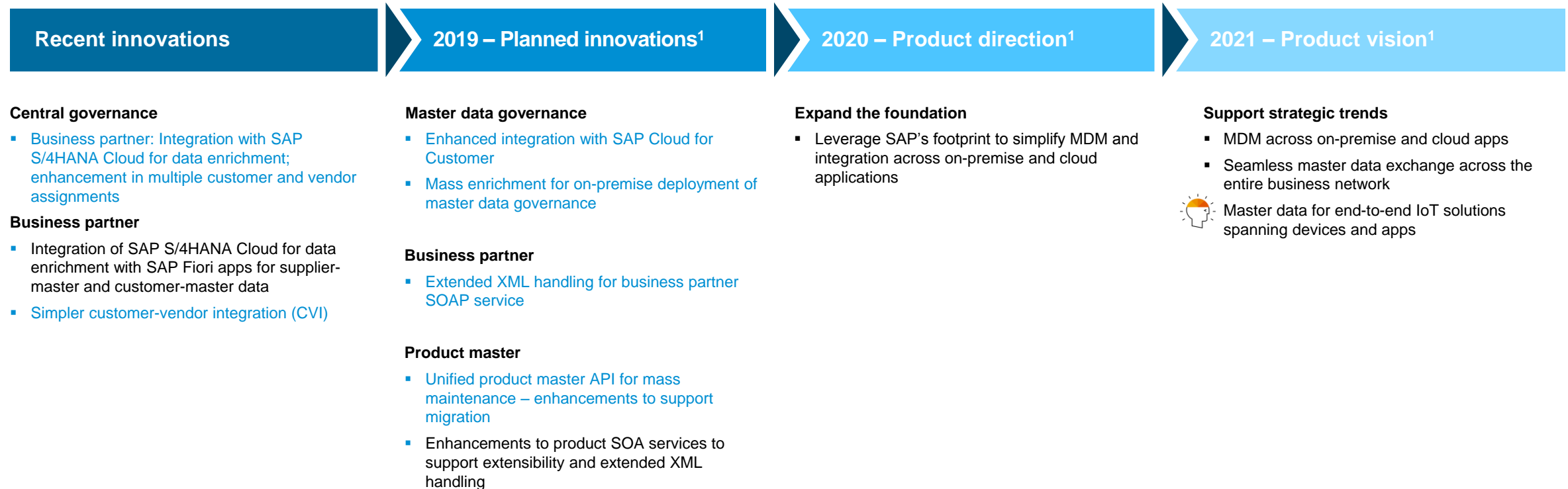


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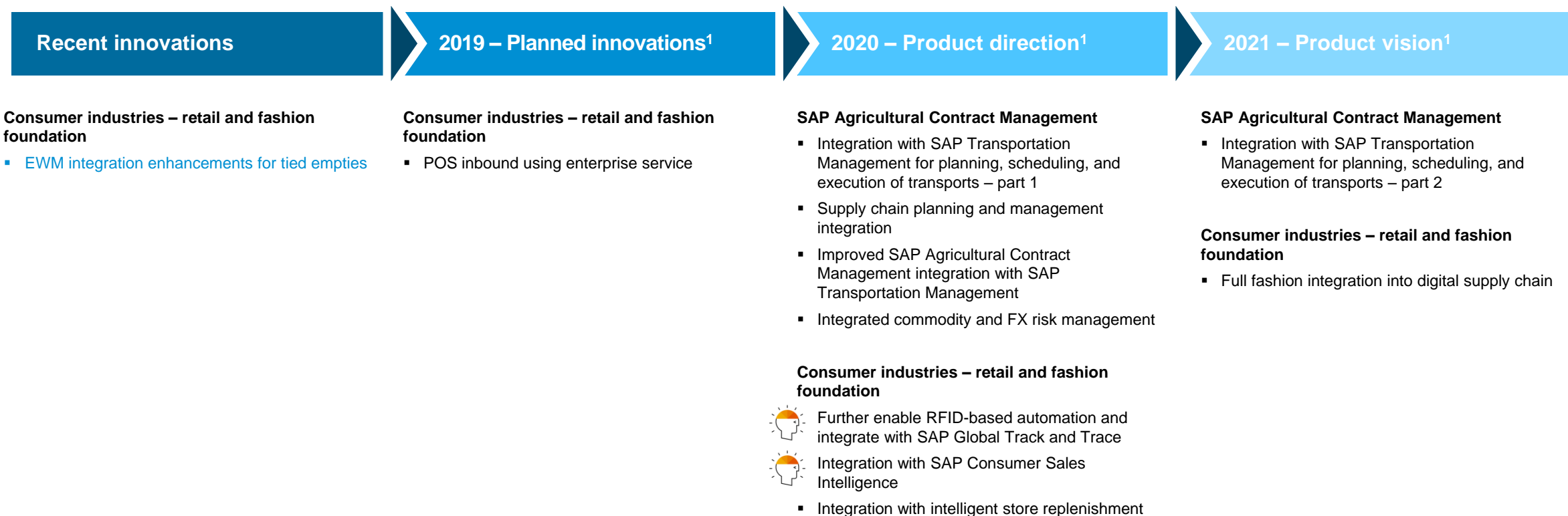
## Integration (6/11) – Master data management



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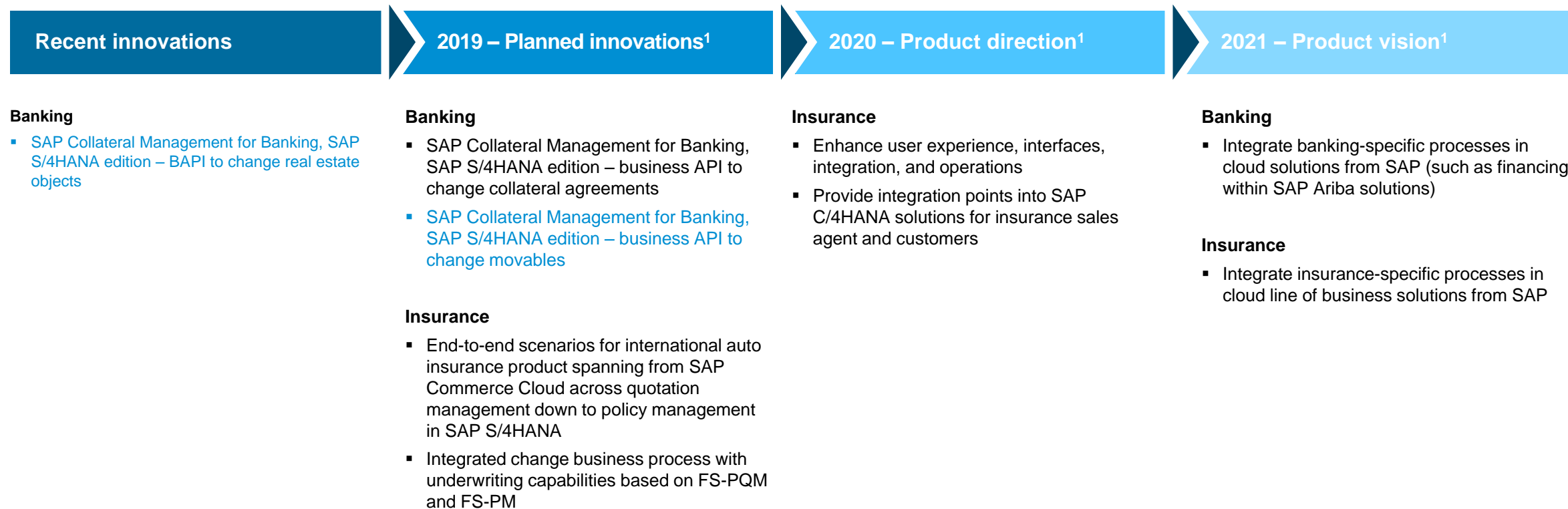
## Integration (7/11) – SAP Agricultural Contract Management; retail and fashion



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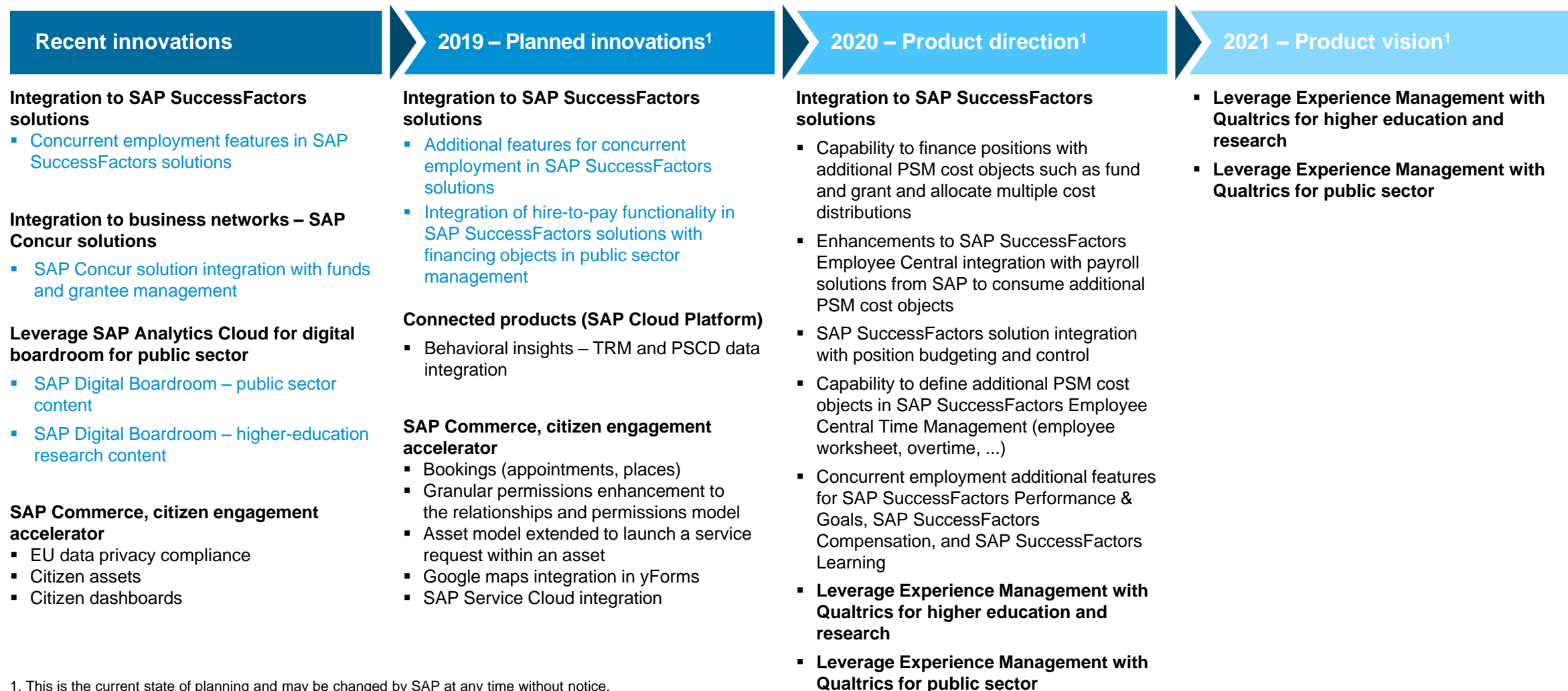
## Integration (8/11) – Financial services – banking, insurance



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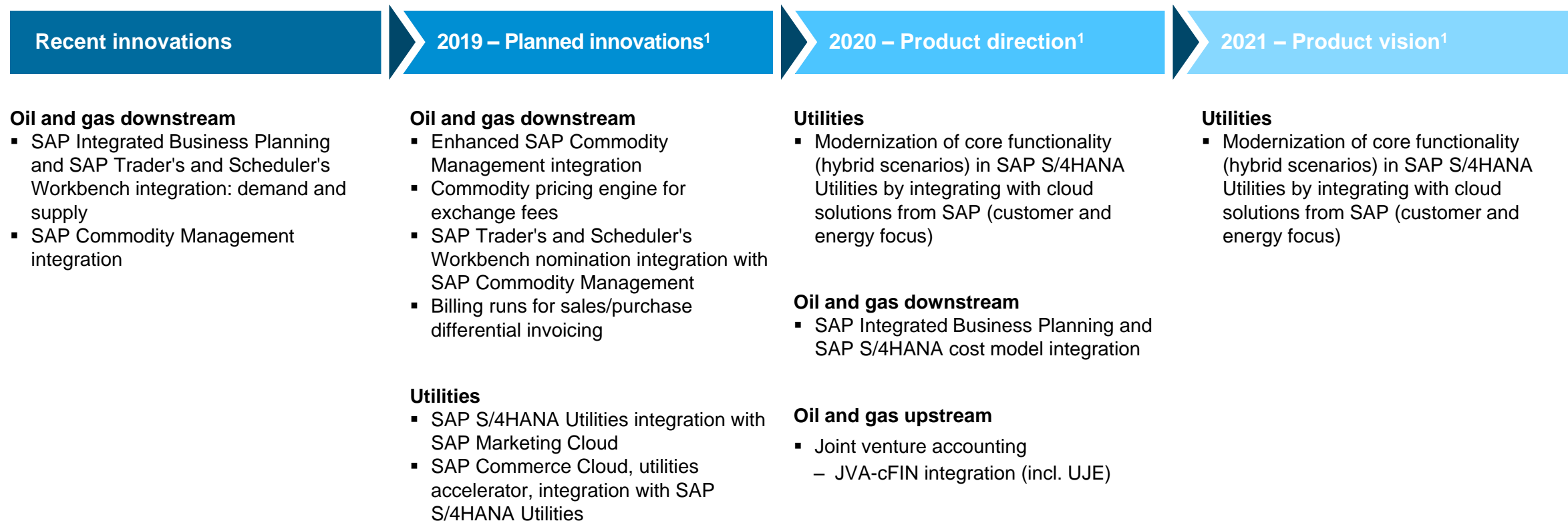
Integration (9/11) – Public services – public sector, higher education and research, defense and security



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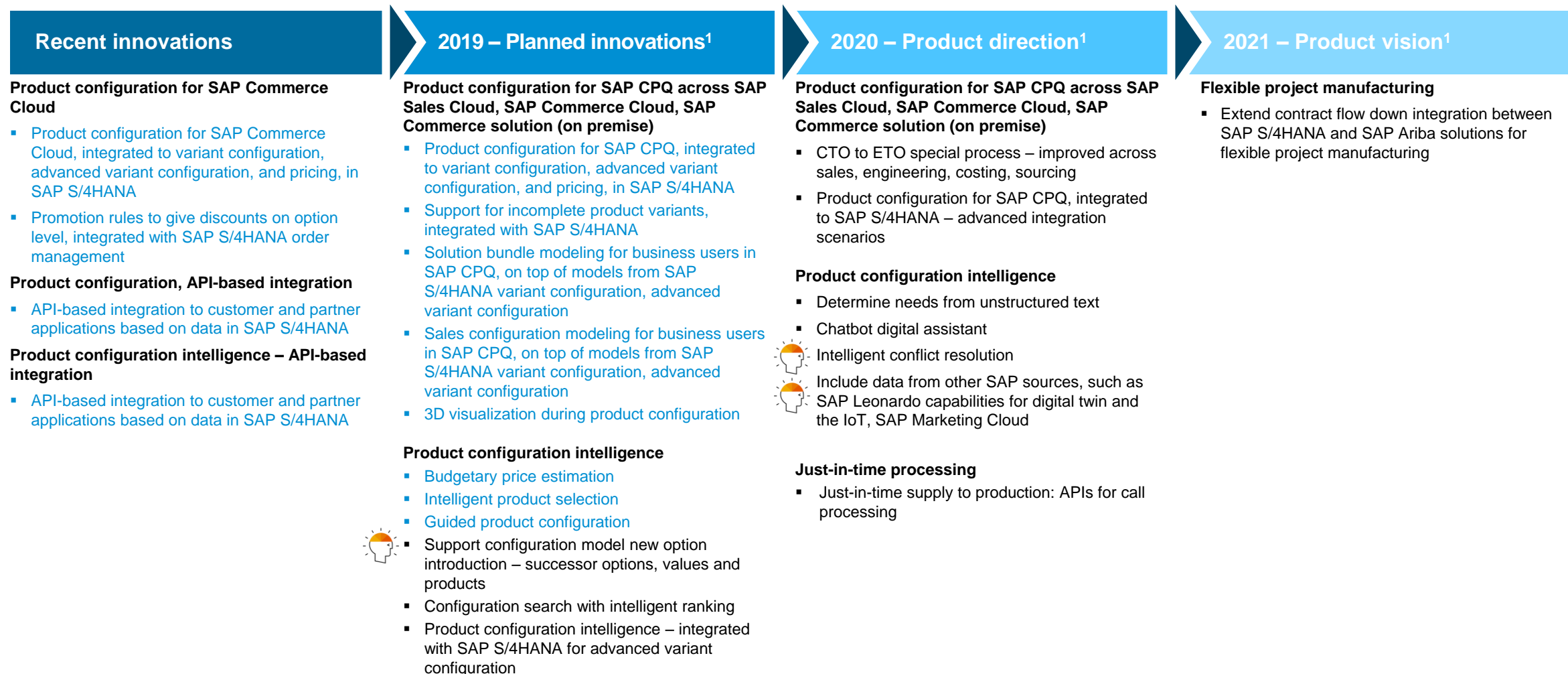
## Integration (10/11) – Energy and natural resources – oil and gas, utilities



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

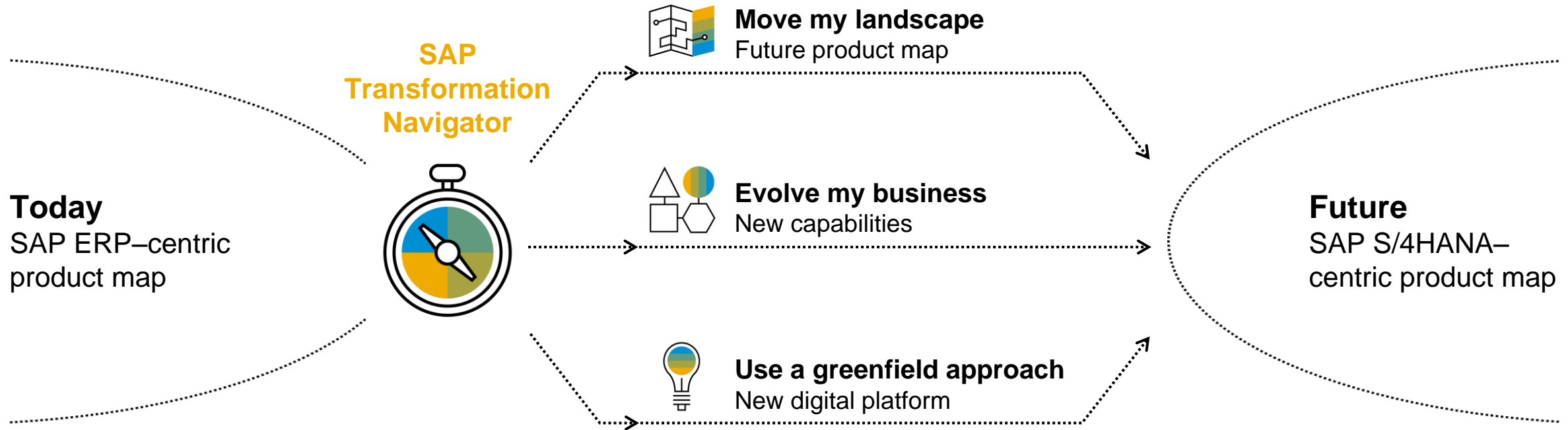


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