



International Conference for SAP Mill Products, Mining, and Chemicals 2021

Strategy Update on the Intelligent Enterprise

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SAP SE

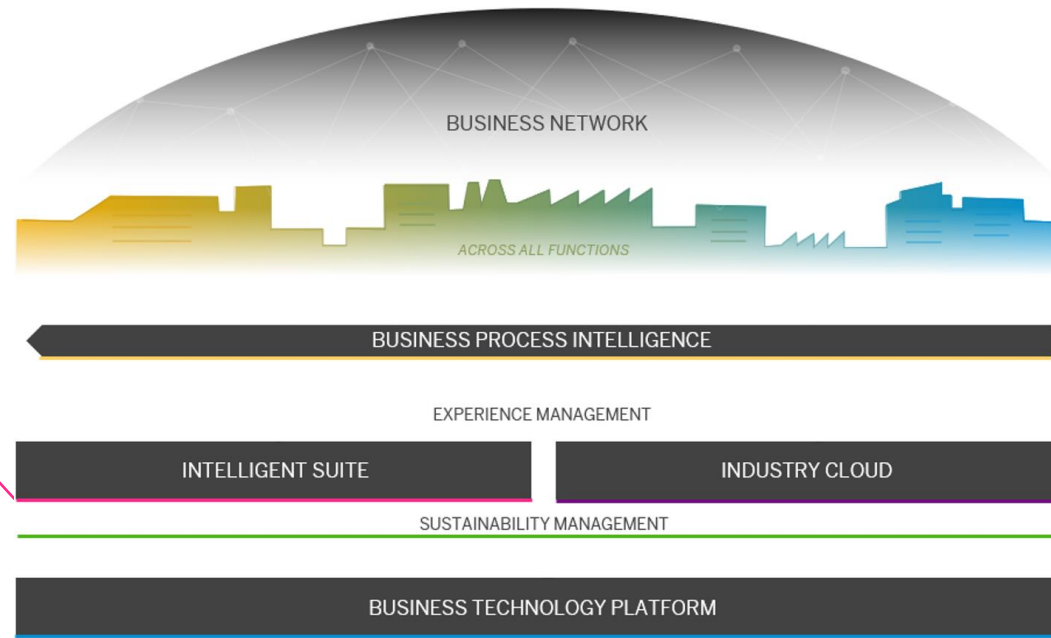
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Strategy Update: The Intelligent Enterprise for Mill Products and Mining



The Core of the Suite

The Core of the Intelligent Suite: The SAP S/4HANA Momentum Accelerates Implemented Worldwide in Mill Products and Mining Industries

Differentiate and Extend

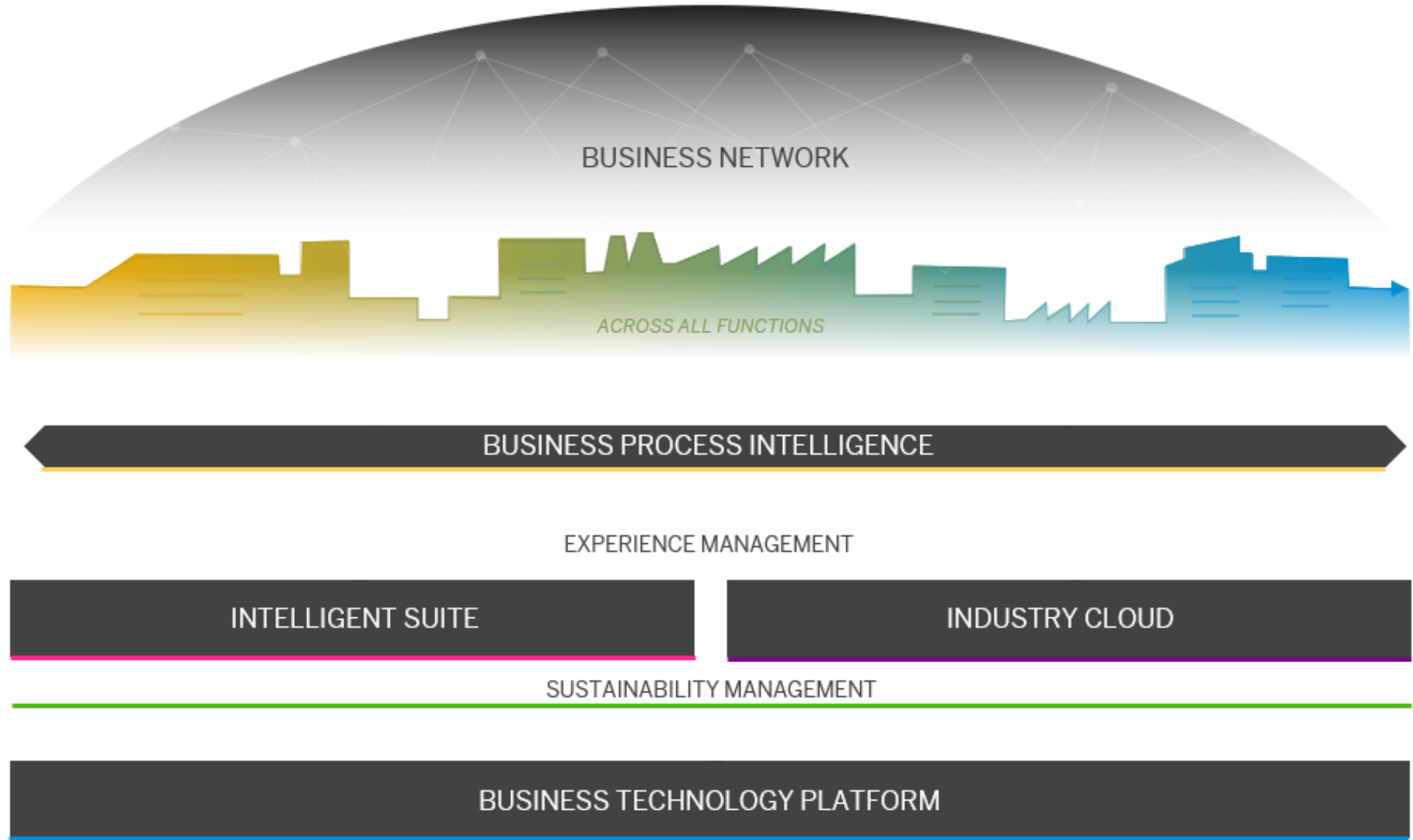
SAP's Industry Cloud

Accelerating innovation in the **difference-making, competition-beating** parts of what you do.

“The Green Line” Embedded

Enabling Sustainability - Where SAP focuses its strategy

SAP as an Enabler
Providing products and services that meet the sustainability challenges and opportunities of our customers.



The Core of the Intelligent Suite: The SAP S/4HANA Momentum Accelerates

Implemented Worldwide in Mill Products and Mining Industries



- Century Aluminum
- Covalent Lithium (Cloud)
- DBG Canada (Cloud)
- DMC Global (Cloud)
- Flexsteel
- Goldcorp
- Hunter Douglas
- Mohawk Carpet
- MP Materials (Cloud)
- Oldcastle
- Sauder
- Wellborn
- Acesco
- Adelca
- Arauco
- Celulose Nipo-Brasileira S.A. (CENIBRA)
- Celulose Irani
- Cementos Pacasmayo
- Cementos Progreso S.A.
- Fortlev Industria
- Grupo Cementos de Chihuahua
- Hochschild Mining
- LaSilla Concretos
- Manufacturas de Papel
- Promesa

- Alacer Gold
- Anatolia
- Grupo Royo
- Hunter Douglas
- Logoplaste
- Marvinpac
- Metalloinvest
- Muskita Aluminum
- National Metal Manufacturing & Casting
- NLMK
- Perlen Packaging
- Rehau (Cloud)
- Sappi
- Thimm Group (Cloud)
- Umur Group
- Vimi Fasteners
- Wieland Werke

- Archidply Industries
- Ashpura MineChem
- Century Cement
- Emami Cement
- Jebesen & Jessen
- Lucky Cement
- Schott Kaisha
- Seforge Limited
- Shriji Polymers
- Tata Steel
- Thermo Cables
- Vectus industries

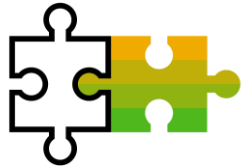
- Everest Textiles
- JFE Steel
- Jiangyin Haida Rubber and Plastic
- Jidong Cement (Cloud)
- Leida Group
- New Sega Textile (Cloud)
- Poongsan Holdings
- Rehau (Cloud)
- Sinoma Science & Technology
- UE Furniture
- Xinjiang Daming Mining
- Yangquan Coal

- Covalent Lithium (Cloud)
- The Comfort Group
- Geographe (Cloud)
- Macmahon (Cloud)
- Mitsui Coal
- Viridian Glass (Cloud)

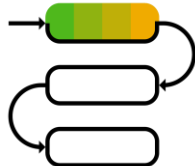


SAP's Industry Cloud

Accelerating innovation in the **difference-making,**
competition-beating parts of what you do.



extend SAP's
intelligent suite



optimize, extend
and transform core
business processes



business applications,
not just technologies



built by SAP and
by its Partners



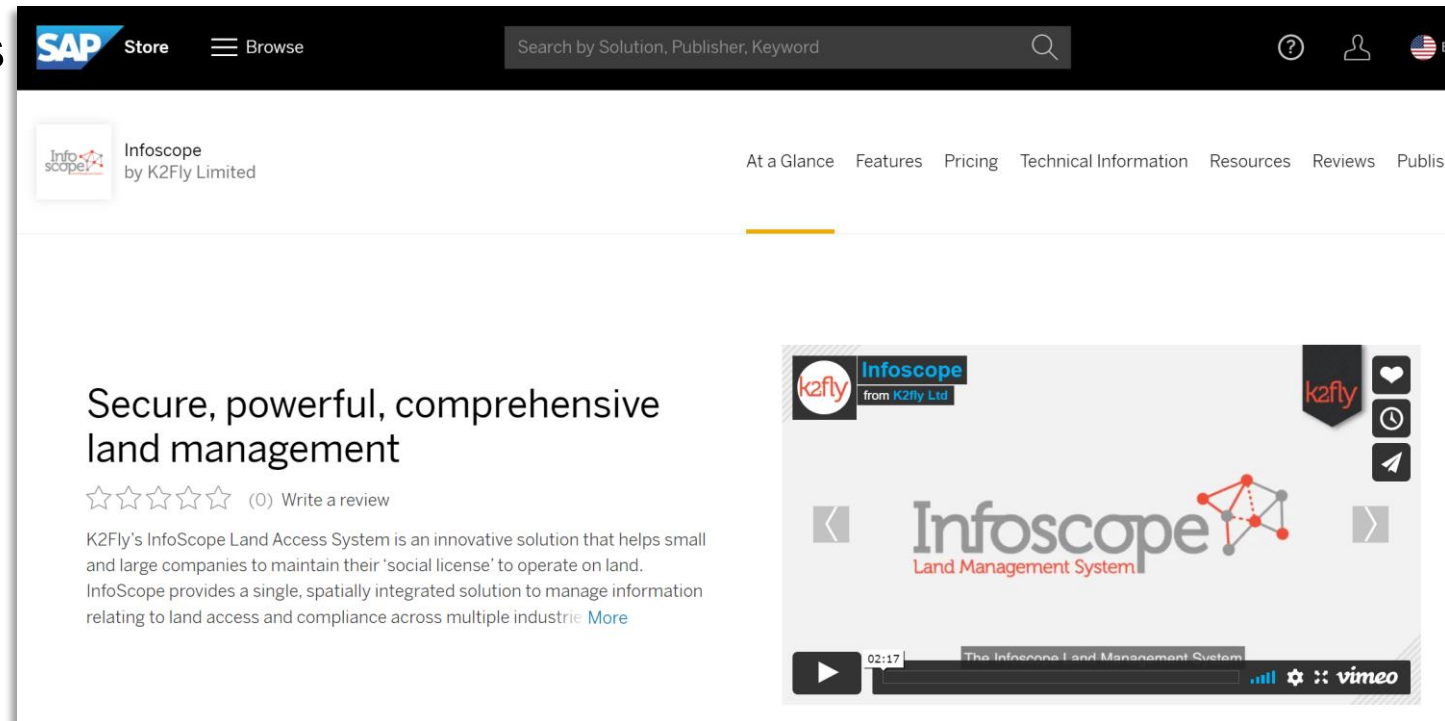
interoperable
and cloud native

Industry Cloud Partner Solution: K2Fly Infoscope: Natural Resource Governance

Manage information relating to land access and compliance.

Single, spatially integrated solution managing:

- Stakeholder information
- Cultural heritage
- Native title & environmental management along with a full life-cycle ground disturbance process
- Tenement Management
- Environmental Obligations



The screenshot shows the SAP Store interface for the product 'Infoscope by K2Fly Limited'. The page features a navigation menu with links for 'At a Glance', 'Features', 'Pricing', 'Technical Information', 'Resources', 'Reviews', and 'Publish'. The main content area includes a video player for 'The Infoscope Land Management System' with a duration of 02:17. The video player has a play button, a progress bar, and a 'vimeo' logo. The video content shows the 'Infoscope Land Management System' logo and a network diagram. The page also displays a star rating of five stars and a 'Write a review' button. The text below the video states: 'K2Fly's InfoScope Land Access System is an innovative solution that helps small and large companies to maintain their 'social license' to operate on land. InfoScope provides a single, spatially integrated solution to manage information relating to land access and compliance across multiple industries. [More](#)'

Industry Cloud Partner Solution

Cogniac: Visual Operations Intelligence

Truckload automation inspection at paper mills, sawmills and plywood mills using AI-powered visual inspection

Maximizes value of Visual Data

- Uses convolutional neural network techniques
- Integrates with SAP Digital Manufacturing Cloud
- Produces meaningful data within days or weeks
- Optimizes models and course-corrects in real time
- Short deployment time
- Saves hundreds of thousands of dollars

Th More'. A blue 'Get It Now' button is positioned below the text. On the right side of the page, there is a 'SAP Demo' section titled 'Cogniac Integration with SAP Digital Manufacturing Cloud (DMC)' with a 'Copy link' icon. This section contains a diagram showing the integration flow between SAP DMC, Cogniac Cloud, Cogniac Edge, and DMC Edge. A list of 8 steps describes the process: 1. Operator selects & starts 1 SFC at Visual Inspection POD in DMC; 2. W POD invokes Customized Production Process START SFC (passing SFC #, Material #, Operation, Resource, Qty); 3. After starting the SFC the START SFC PP posts relevant data to Cogniac cloud (SFC #, Material #, Operation, Resource); 4. Cogniac cloud communicates with its Edgeflow to trigger a camera capture, cut the image through relevant workflows, upload the image and results to Cogniac cloud; 5. Cogniac Edgeflow uploads the image and results to Cogniac cloud; 6. Cogniac cloud posts image to DMC; 7. Cogniac Cloud post the MC classes with coordinates to DMC's Data Collection API, one call per MC class; 8. Operator refreshes the pod & synchronizes with the cloud. Operator either accepts or rejects the recommendations from Made by the Cogniac system. A 'Watch on YouTube' button is located at the bottom of the diagram."/>

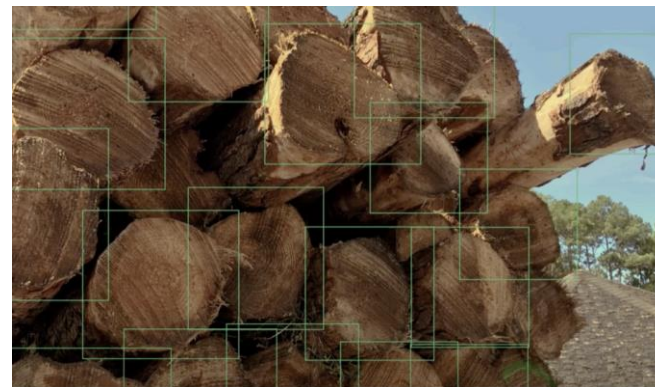
Visual Process Optimization

Cogniac extracts massive value from visual assets to realize unparalleled process performance improvements across your organization. Developed for ease of deployment and use, Cogniac's scalable solutions integrate seamlessly with any existing camera infrastructure and workflow in any environment. [Th More](#)

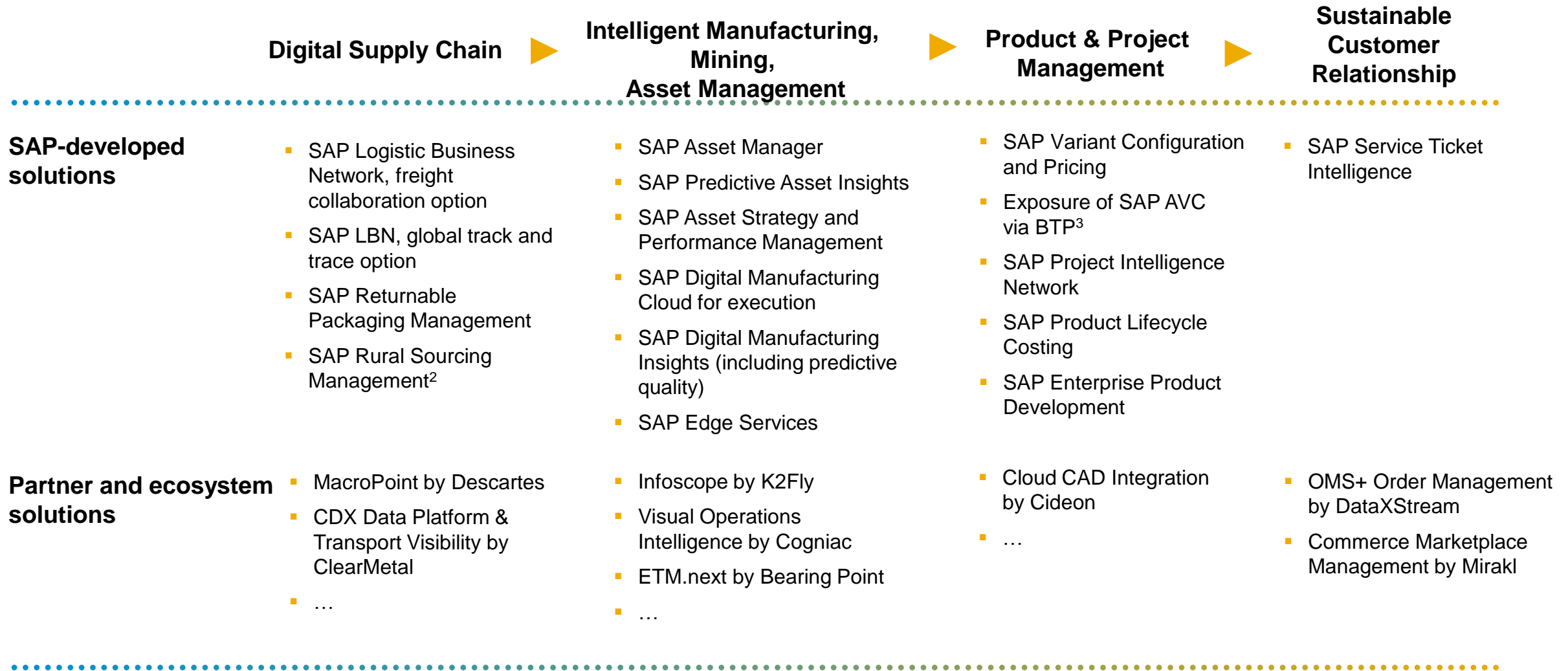
[Get It Now](#)

SAP Demo: Cogniac Integration with SAP Digital Manufacturing Cloud (DMC)

Watch on [YouTube](#)



Existing and Planned¹ Industry Cloud Solutions for Mill Products & Mining



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

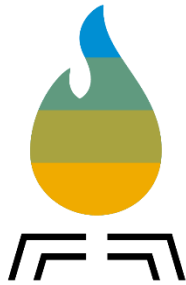
2 Not yet available on the SAP Store.

3 Planned innovation.

Enabling Sustainability - Where SAP focusses its strategy

SAP as Enabler

Providing products and services that meet the sustainability challenges and opportunities of our customers



Climate and Natural Capital Accounting

Driving commitment to reduce emissions – a decision that leads to savings on resource and energy expenses



Circular Economy, Resource Productivity, Tracking and Reuse

Building resilience and circular economy principles into supply chain, material flows, markets and resource consumption leading to zero waste



Protecting People, Communities and Societies

Responding to rising customer expectations with products and processes that are good for the environment and society



Responsible Business

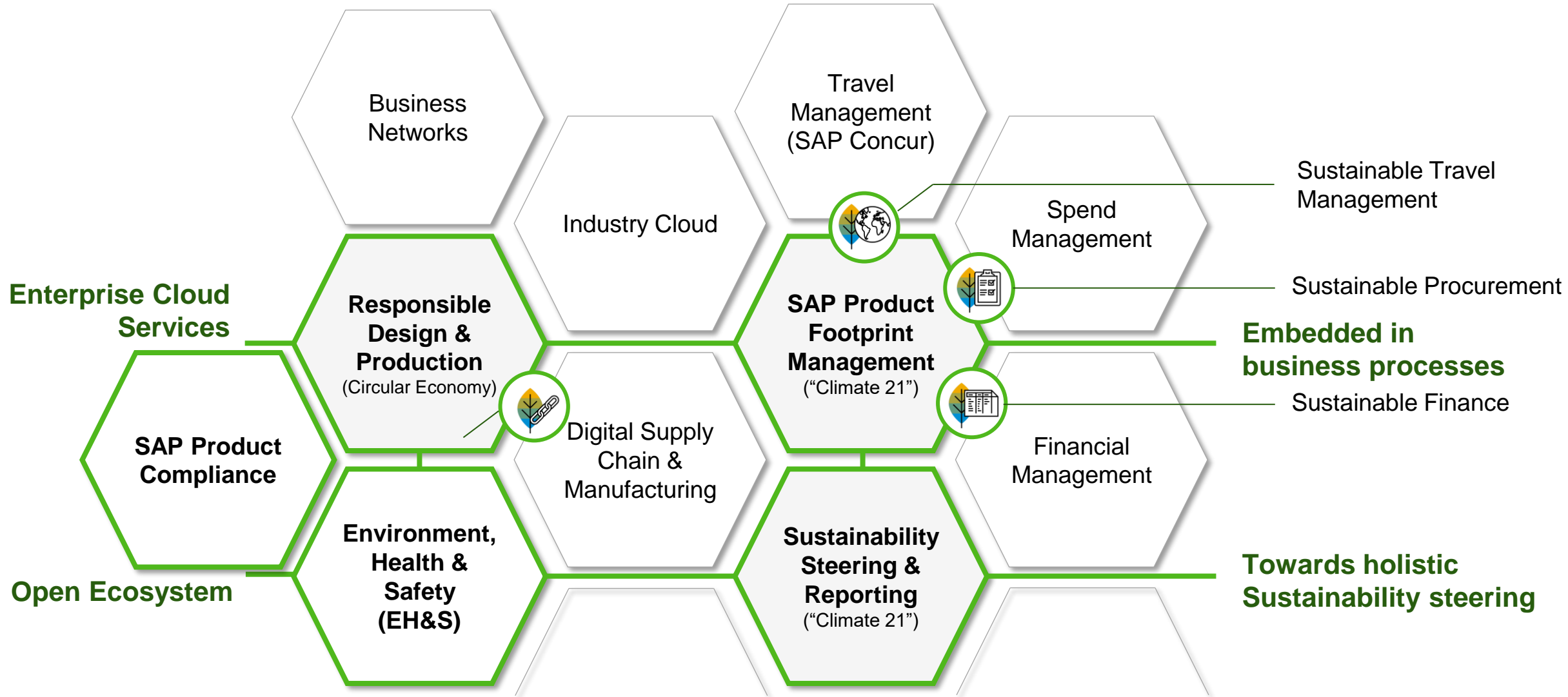


Social Responsibility



Environmental Management

Sustainability Management by SAP – Modular, Embedded S/4HANA Cloud Services



Thank you

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International Conference for SAP Mill Products, Mining and Chemicals 2021 - Keynote

Thorsten Wenzel (Ph.D.)
Vice President & Global Head Chemical Industry
SAP SE

Chemical Industry Economic Outlook

Global GDP set to bounce back

(Percent change in real GDP and key components)

	2020	2021	2022	2023
Real GDP	-4.0%	4.5%	3.9%	3.2%
Private consumption	-5.7	4.6	4.1	3.1
Fixed investment	-3.6	4.3	4.2	3.8
Goods and services trade (exports)	-8.2	5.4	5.6	4.0
Industrial production	-5.5	5.6	3.9	3.3

Source: IHS Markit

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Global chemical output set to rebound

(YOY percent change in volume)

By region	2020	2021	2022
Africa & Middle East	0.3%	3.6%	3.1%
North America	-3.9	4.1	2.7
Latin America	-7.2	4.6	3.2
Europe	-2.2	3.1	1.6
Asia/Pacific	-2.1	4.4	3.3
Total world	-2.6	3.9	2.6

By segment

Agricultural chemicals	-1.7	3.9	2.9
Basic chemicals	-1.2	4.2	2.7
Inorganics	-3.9	4.2	2.4
Bulk petrochemicals & organics	-2.4	4.0	2.7
Plastic resins	3.1	4.9	3.3
Synthetic rubber	-9.4	7.5	3.6
Manmade fibers	-3.4	6.1	3.0
Specialties	-7.3	4.1	2.8
Coatings	-15.0	4.6	3.0
Other specialties	-4.1	4.0	2.8
Total chemicals output	-2.6	3.9	2.6

Source: IHS Markit

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FULL LIST VIEW
LG Chem
WORLD CHEMICAL OUTLOOK 2021

SHARE



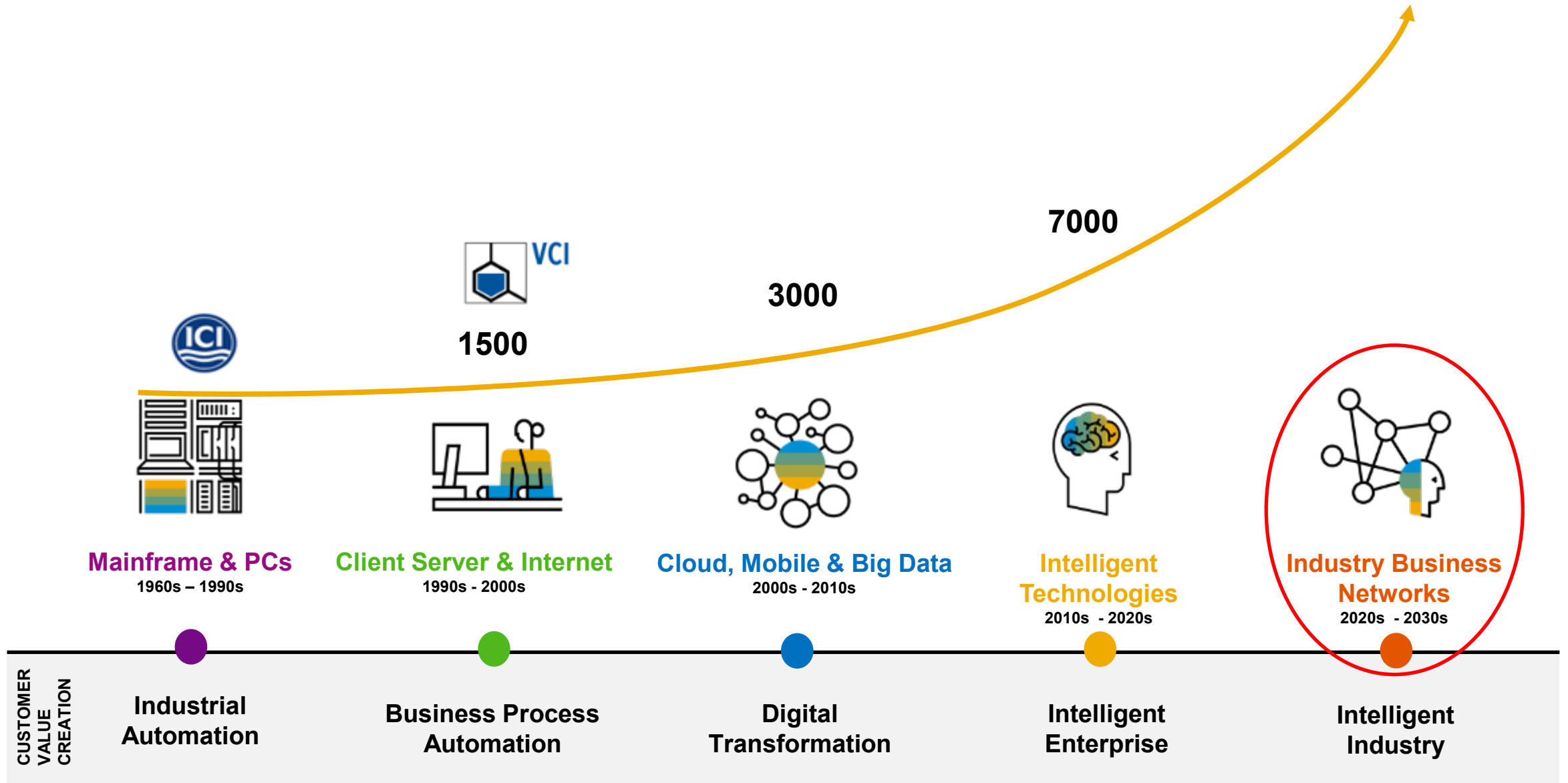
Moderate: Near-term carbon reduction

Air Liquide	30% reduction versus 2015	2025
Braskem	58% reduction versus 2008	2030
Covestro	50% reduction versus 2005	2025
Evonik Industries	50% reduction versus 2008	2025
Linde	35% reduction versus 2018	2028
Lotte Chemical	26% reduction versus 2013	2028
LyondellBasell Industries	15% reduction versus 2015	2030
Mitsui Chemicals	25% reduction versus 2005	2030
Sabir	25% reduction versus 2010	2025
Shin-Etsu Chemical	55% reduction versus 1990	2025
Solvay	26% reduction versus 2018	2030
Sumitomo Chemical^a	57% reduction versus 2013	2050
Toray Industries	30% reduction versus 2013	2030

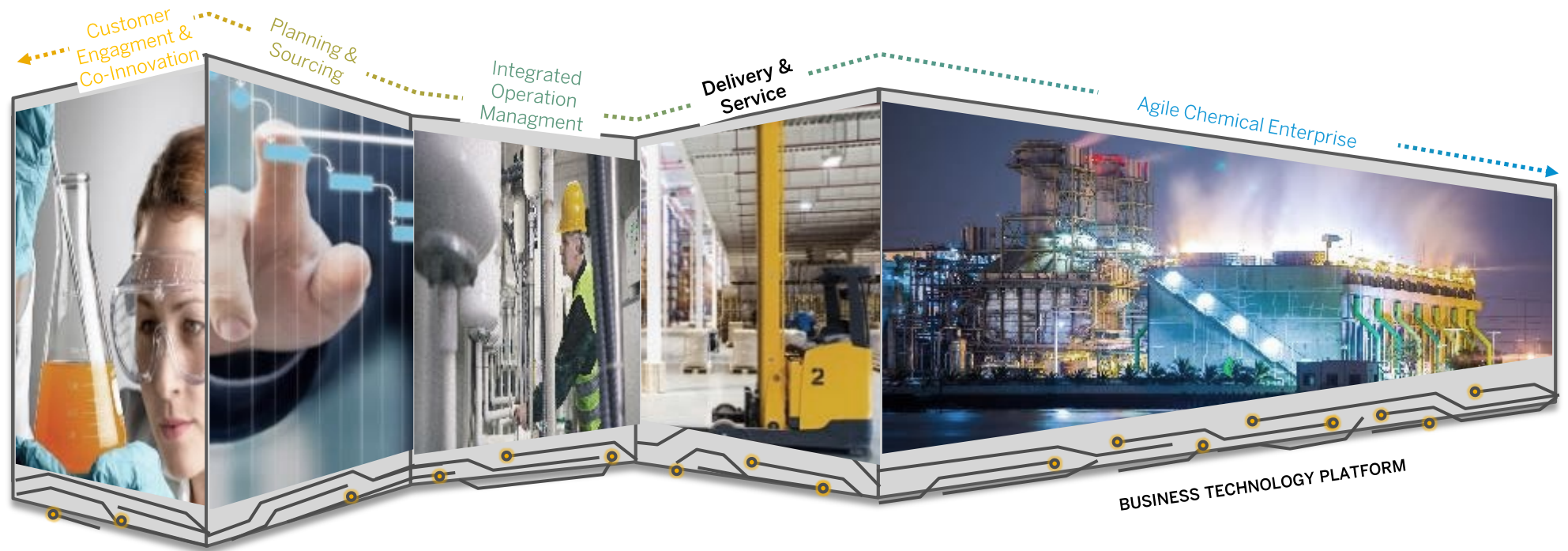
Ambitious: Net zero by 2050

Chemours	Carbon negative	2050
Dow	Carbon neutral	2050
DuPont	Carbon neutral	2050
Eastman Chemical	Carbon neutral	2050
Mitsubishi Chemical	Carbon neutral	2050
PetroChina	Near carbon neutral	2050
Reliance Industries	Carbon neutral	2035
Sinopec	Carbon neutral	2030
Yara	Carbon neutral	2050

Growth of SAP's Chemical customer base



SAP for Chemicals: End-to-End Business Support



Idea & Innovation Mgmt.

R&D Mgmt.

Product Development Collaboration & Formulation

Open Innovation

Product Management

“Segment of One”

Digital Boardroom for Chemicals

Business Planning

Discover Sourcing Options

Procurement

Source 3rd party resources

Inhouse Manufacturing

Predictive Quality

Quality Mgmt

Digital Twin

Labeling

Continuous Process verification

Predictive Maintenance

Serialized Track and Trace

Warehouse Mgmt

Digital Twin

CO₂ Reduction

Logistics Business Network

Digital Assistant Safety Data Sheet

Returnables Handling

Financials

Controlling

Cost Control

KPI reporting

Predictive Analytics

Human Resources

Asset Information Network

eCommerce

Digital Boardroom for Chemicals

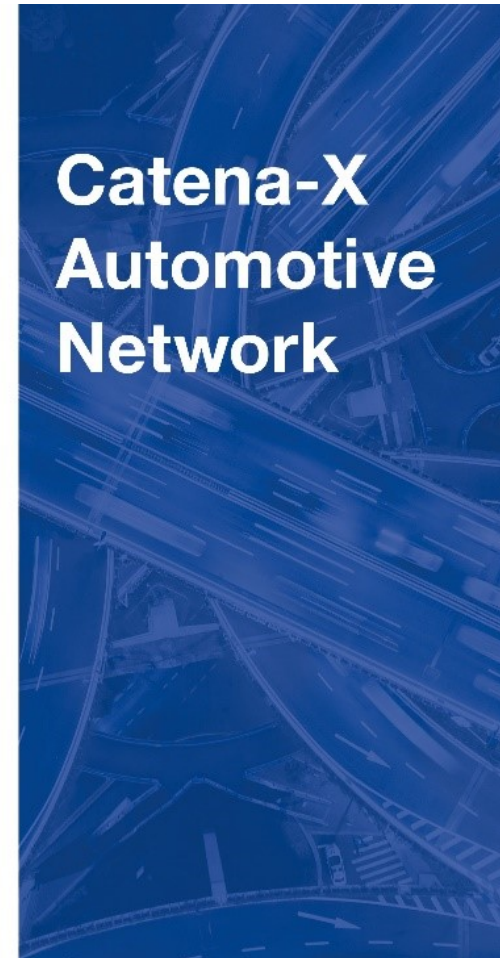
Active Portfolio Management

ML for Dangerous Goods Classification

Industry Business Networks: Example – Catena-X



Open for more partners.



Industry Business
Networks
2020s - 2030s

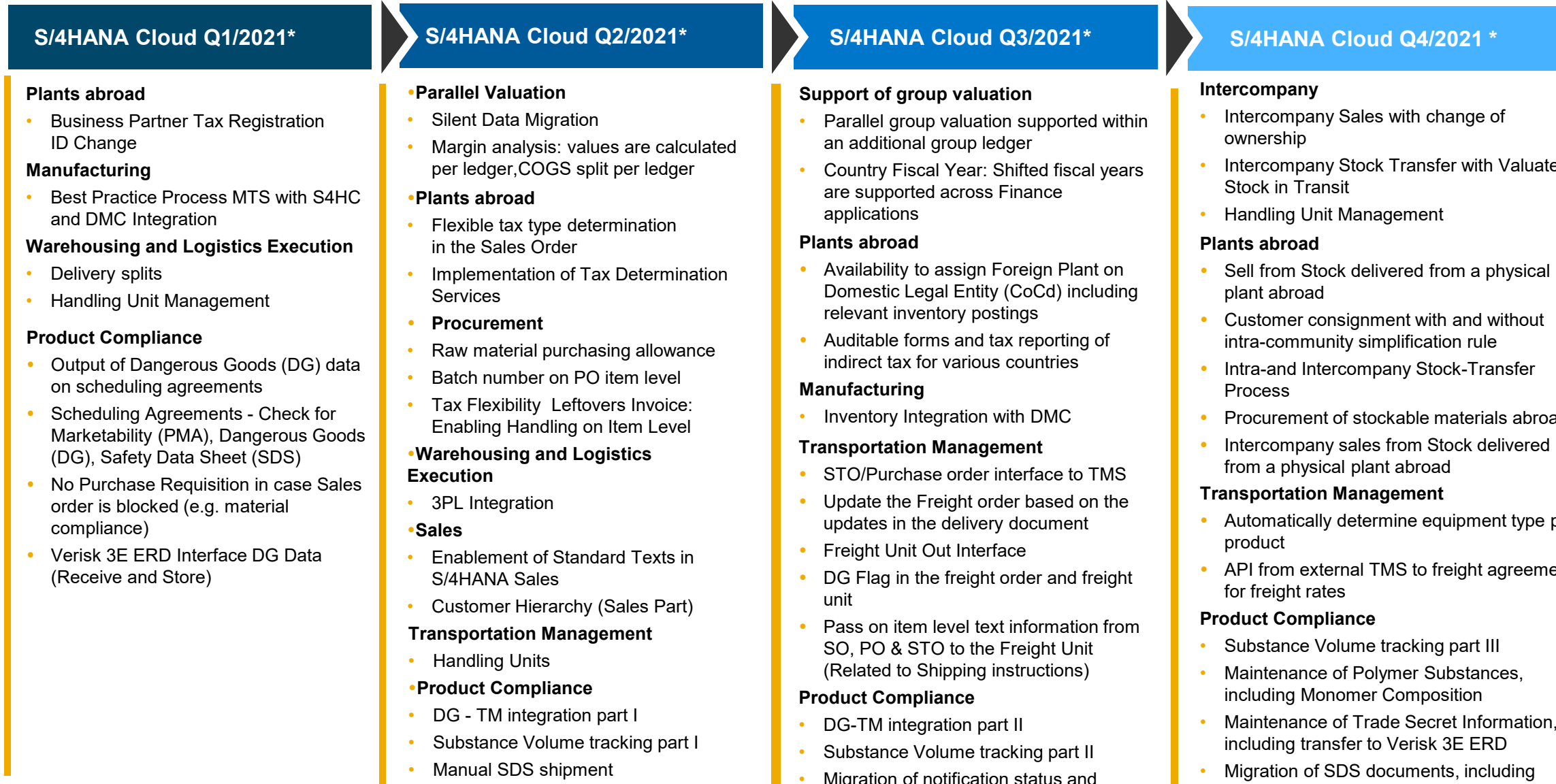
<https://www.linkedin.com/company/catena-x-automotive-network/>

Intelligent
Industry

This is *not* another upgrade.
It is a new way of working.



S/4HANA Cloud for Chemicals – R4Q Roadmap





Chemicals | Industry Software Solutions | SAP



@SAPChemicals



SAP Community Expert Page



SAP Industries



Chemical Industry SAP User Group

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