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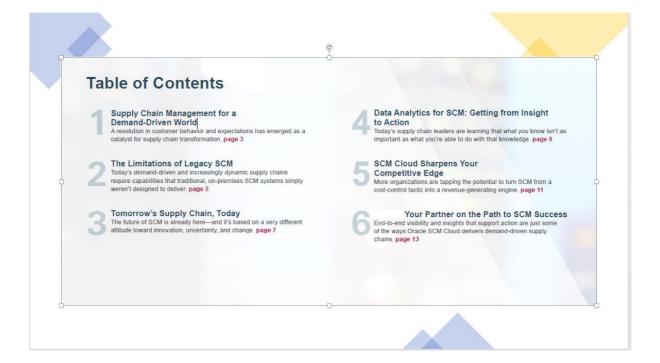
CILT-India

This Document is prepared by Vengatessh Rajasekar currently working as a digital transformation consultant & also Head the Youth Forum for the National Council of India CILT India.

Summary:

In the current digital era its necessary for any domain expert to know about the **technology trends** and how the **digitization** is carried out in ease with necessary metrics to keep in mind.

The Below document fully explains about the **demand driven world** for SCM along with limitations of legacy SCM which will explain about the need for the current digital SCM with **AI/ML** playing a cutting edge in digital space. The Article also clearly explains the benefits of **enterprise data management** and its key to success in different industry verticals. Also, when it comes to digital its necessary to explain about the **Industry 4.0** and how **IOT** is playing a key role in betterment of smart manufacturing which takes to **Factory 4.0** and their implementation benefits. Finally, the author has explained about the need for **business transformation** and necessary levers to transform the business along with different **digital services** available in the industry.



Supply Chain Management for a Demand-Driven World

Supply chain has become the battleground for customer loyalty as companies respond to fast-changing demands and business conditions. New technologies enable deeper visibility and more precise control in supply chain management (SCM) for both B2B and B2C brands, and companies that adopt modem, cloud-based SCM systems are being rewarded with efficiency gains, higher productivity, and growing revenues and profits.

It's no surprise that the C-suite is paying more attention to SCM and raising expectations for top- and bottom-line contributions from supply chain managers. Two long-term trends are contributing to this shift:

 Massive disruption: Over the past decade, market disruptors used technology as a virtual battering ram—knocking down barriers to competition and obliterating traditional order-to-deliver business models. This started in the B2C sector and has spread to B2B. While the rate of change may vary across industries, it's now clear that there's nowhere to hide from the realities of digital disruption. Changing Expectations: Online companies such as Amazon and Deliveroo didn't just reshape their industries; they also set off a revolution in B2B buyer expectations for:

- → Smaller and more frequent deliveries
- Free-of-charge services with real-time visibility into the location and status of goods
- Unique and personalized product and service "experiences"

These expectations require more agility and real-time processing than traditional SCM technology and practices can deliver.

By the end of 2018, fully one-third of all companies will find themselves disrupted by

digitally enabled competition.¹

The Limitations of Legacy SCM

Traditional, on-premises SCM employs a linear and fairly rigid approach to designing, sourcing, making, and delivering goods.

1. Seller/supplier control: Organizations built the products they believed customers would buy.

2. "Push" distribution: Products were distributed via channel partners for sale to consumers.

3. Single-channel purchasing: Customers typically purchased products through a single retail outlet or sales contact.

This paradigm no longer works as the marketplace has become connected Today's demand-driven and increasingly dynamic supply chains require capabilities that legacy SCM systems simply weren't designed to deliver. The Supply Chain of the Past



Where Legacy SCM Technology Fails

Fragility vs. agility: Agility is an incredibly valuable capability for today's supply chains because fast adjustments mean less disruption and enhanced service. Traditional, on-premises SCM technology is often prone to displays of fragility instead: demanding interventions, modifications, and workarounds to keep functioning as customer and business requirements change.

Demand and fulfillment: Third-party systems and processes to support specific channels are common in legacy SCM systems, and this creates challenges around visibility, service consistency, and an understanding of the true cost to serve. In an omnichannel environment, firms need (and customers increasingly expect) a consistent and seamless experience across channels and device types—a major challenge for systems architected for a singlechannel world.

Fulfillment complexity: Agile businesses use multiple fulfillment models to reduce inventory costs, cut order lead times, and avoid lost sales. Here, too, a legacy SCM system may offer native support for certain fulfillment methods/channels but will rely on third-party tools, customizations, or bespoke development to work with others.

Visibility gaps: Buyers expect order and transaction data at their fingertips. Some of this information may be available using a legacy SCM system, but some of it is likely to be inaccessible or inaccurate. Time-to-market and/or customization bottlenecks: Same-day fulfillment and customized products can be powerful differentiators, yet they can also be high-risk activities when integration gaps or data quality issues in legacy SCM systems result in companies making promises their manufacturing and fulfillment systems can't always keep.

Working Toward a Friction-Free Supply Chain

Oracle SCM Cloud users reported an average

90% reduction in cycle time 36% faster product delivery

Could your business benefit from these types of end-to-end efficiency gains?

Tomorrow's Supply Chain, Today

Traditional, on-premises SCM is tied to entrenched approaches; it forces businesses into reactive and defensive postures; and it equates change with cost, complexity, and risk. Modern SCM, on the other hand, enables innovative, proactive, and continuously improving supply chain practices. The essential elements of a modern, cloud-based SCM system reflect and reinforce the concept of building tomorrow's supply chain, today.

"People look at supply chain in pieces and it has to be looked at holistically. The way to truly analyze supply chain is point of order to point of fulfillment and doing that in as lean a way as possible."

-Karl Glassman, Chief Operating Officer, Leggett & Platt

What Does a Modern Supply Chain Require?



The 6 Defining Traits of SCM Cloud Applications

- Integrated. Integration creates more efficient, low-friction supply chain processes and provides end-to-end visibility into those processes so you can solve problems instead of just moving them to another part of the enterprise.
- 2 Demand-driven. Analytics and reporting capabilities, for example, enable cost-effective manufacturing and distribution of customized products or services.
- 3 Agile. A cloud-based SCM system is not just responsive to change, but can also be an enabler for change—in the marketplace, in customer preferences, and in the environment where manufacturing and distribution takes place. It gives you the information to understand in real time what is changing and how to react.

4 Intelligent. As well as exception-based processing, modern, cloud-based SCM increasingly uses AI and machine learning to automate supply chain processes that previously required human monitoring and manual intervention.



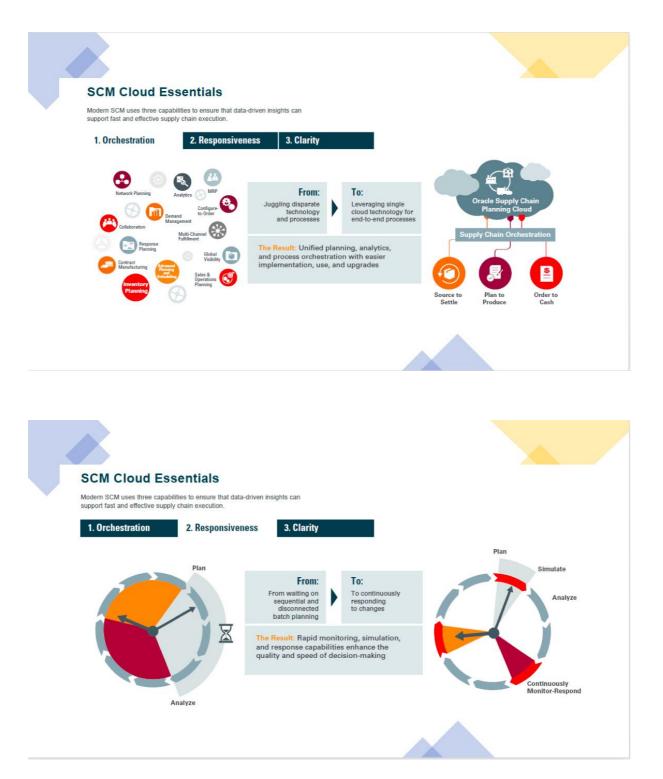
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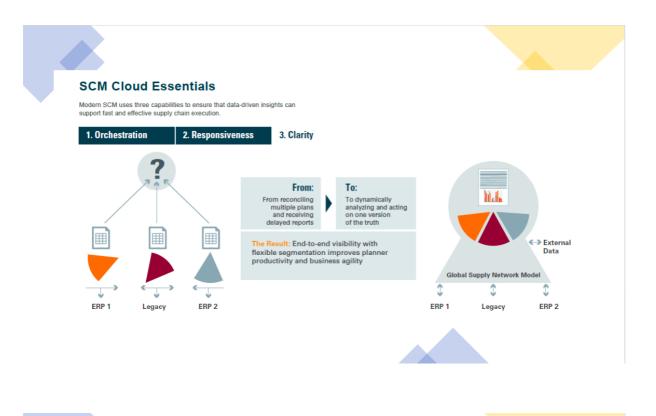
Learn More About How Intelligent Applications Enable Modern SCM. View the Adaptive, Intelligent Supply Chain video for a deep-dive review of how technology is reshaping SCM—as a discipline and as an enterprise application.

Automatic Upgrades to the Latest Release









Embrace Al to	Discover the Value
in Big Data	

"Analysis paralysis" is a risk for any company that taps into the massive stores of structured and unstructured data readily available today. AI (what Oracle refers to as "adaptive intelligence") avoids this dilemma by assessing relevance and business value, and identifying correlations that might otherwise go unnoticed, rather than simply crunching numbers.

Consider one example of how AI informs supply chain action:

Oracle Adaptive Intelligence Apps How Adaptive Intelligence Apps Link Insights to Action for SCM

Al learns and adapts based upon outcomes—i.e., how you adjust recommended actions and upon supplier/partner responses to recommended actions.

Data and Insights	Decisions and Action	
 Oracle Data Cloud → 5+ billion anonymous consumer/business profiles → 45,000+ dimensions to group profiles 	Best-fit candidate profiles Best-fit suppliers Best freight providers	
	Inventory optimization Delivery optimization	
Organizational Data → Supplier history → Financial ratios → Outstanding invoices	Targeted dynamic discounting Dynamic payment-term decisions Invoice discount rates	
	Real-time cash flow optimization Identification and alerting to potentially fraudulent suppliers	

SCM Cloud Sharpens Your Competitive Edge

Any time a business considers a technology investment, one question takes center stage: Do the numbers make sense? According to research data from a number of sources, the answer across a wide range of potential business benefits is an unqualified "Yes."



Success with SCM Cloud: Examples from the Field

Individual customer examples provide another perspective on the benefits of solutions such as Oracle SCM Cloud. Supply chain excellence can appear in any number of ways—but ultimately, the numbers always tell the same story.



Nature's Bounty Co. accelerated innovation by adopting Oracle SCM Cloud



Supply Chain Excellence by the Numbers

Different organizations naturally have different priorities for how they improve supply chain performance and how those gains benefit the business as a whole. With a modern SCM solution like Oracle SCM Cloud, however, the benefits are clear whether your priority is operational efficiency, cost reduction, customer experience, or even revenue impact (1):

Operational Efficiency Gains

28% increase in supply chain team productivity

Operational Speed & Agility

36% faster product delivery; 90% reduction in cycle time

Cost Savings Average total cost savings 35%; average material cost savings 6%

Business Performance Gains

1.6% average revenue growth; 6% average gross profit growth

Companies that take a more strategic approach, creating an optimal manufacturing and distribution network (2):

Improve plant output by up to 25%	
Improve inventory turns by up to 40%	
Experience on-time and in-full deliveries 96% of the time	
Decrease stock shortages by 10% to 30%	
Increase gross margins by 6% to 10%	



Many organizations are

still using manual process like spreadsheets, email,

and in-person meetings to

govern structural changes across enterprise systems.

Insights That Support Action

Oracle SCM Cloud provides the advanced reporting and analytics capabilities required to implement a modern, demand-driven supply chain. It also provides the end-to-end visibility and process orchestration that enable an agile, responsive, and efficient approach to SCM.

An SCM Investment That Pays

Cloud ensures your SCM applications are always up to date, delivering the platform necessary to adopt new innovations such as IoT, AI/ML, and blockchain. Do the research, run the numbers, and discover the true value of an investment in Oracle SCM Cloud.

End-to-End Visibility for Business Process Excellence Oracle SCM Cloud enables you to take control of complex, global supply chains. Gain the end-to-end visibility you need to implement a variety of integrated business processes;

- 1. Ideation to Commercialization
- 2. Source to Settle
- 3. Order to Cash
- 4. Plan to Produce
- 5. Maintain to Optimize



Realizing the Benefits of Enterprise Data Management

Have you ever sat in a meeting where everyone has a different number for the same performance measure? This typically results in spending the next hour trying to reconcile the differences rather than making the important business decisions required

Upon further analysis, it is likely everyone will have the right number according to the system from which it was derived. The differences can likely be attributed to inconsistent hierarchical master data across these systems. It has existed ever since organizations start implementing more than one business system. But today, the problem is magnified across the many systems most organizations have and by the large numbers of changes today's business environment generates.

It is therefore essential for organizations to effectively manage hierarchical master data across multiple information systems Organizations need to move beyond the mix of email, spreadsheets and adhoc systems that many currently rely on to execute this extremely important function. Numerous organizations are looking for enterprise software solutions like Oracle Enterprise Data Management Cloud to help them effectively manage these problems without relying on manual processes.









Today's Enterprise Data Management Challenges



Hornagements characteringes How do most enterprises manage enterprise data today? Remarkably for something so important, they do 8 through convessitors, felephone calls, spreadbatest and e-mail. For example, if a departmental manager wants to add another cost center, of it management wants to home facilities from human resources to filance, the toesness decision must fits be approved by althe relevant decision makes. This takes the oppose that the relevant decision makes that bases make the change and ensure that it types through all of the enterprise's transactional systems, data warehouse, business intelligence and enterprise performance management solution Because changes are made manually, often the end result is a lot of people malary al lot of missible with a lot of mission critical

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ar-misuities that go unaccovered due to a tack or visionity raceability in the process. is compounded by the sheer number of changes that take ce in enterprises today. We constantly cite the increasing ange in enterprise data.

Manual Data Management Leads to Mistakes and Lack of Visibility and Traceability





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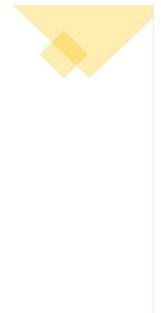
Modern Enterpris Data Managemen

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stics of this approach include the need for a formal, upfront d

t activity trails that enable

gnificant benefits from taking e data management across





LOGISTICS 4.0 AND THE INTERNET OF THINGS

Workshop "Platforms for connected Factories of the Future"

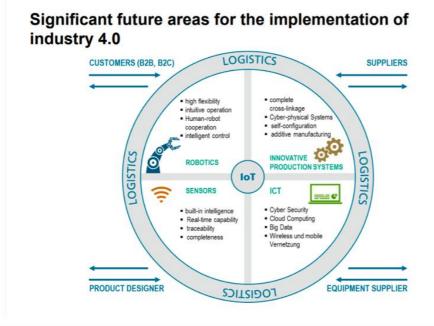




Industrie 4.0: Developments towards Smart Factory

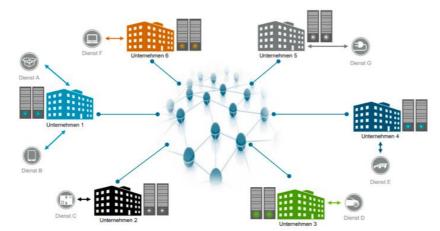
Logistics 4.0 \cdot Internet of Things \cdot Everything is autonomous!



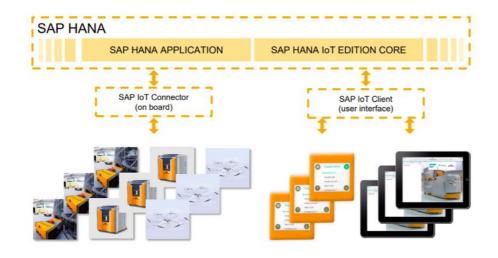


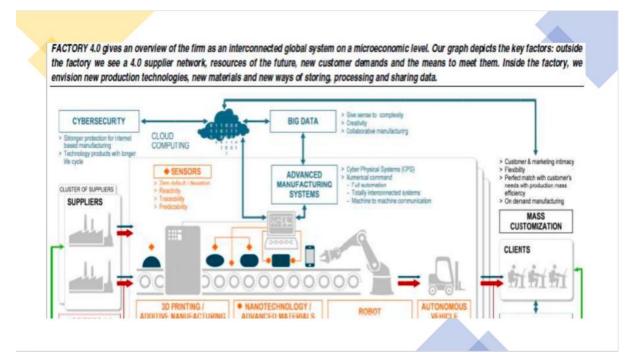
Industrial Data Space: on demand networking

All data are protected and under Control of their owners. No central platform. Data and services are linked and shared on demand.



Social Manufacturing and Logistics Humans and Machines in joint Social Networks





The Age of Digitalization Transforming What's Right For Your Business

Harnessing full potential of business transformation

 With the advent of new technologies, the past decade has <u>fuelled</u> the organization's efforts for transforming their current business practices from multiple directions. Be it Operations, IT, Supply chain, or Sales, the potential to scale and achieve efficiency through a transformation project using big data, cloud, machine learning or even a simple tool upgrade is high. However, without understanding the end goal and the possible disruptions brought upon by the changes, any transformation exercise will always be a costly gamble!



Business Transformation : A story of Turnaround

A fortune 500 company intended to transform their P2P process by adopting a standard tool, which did not yield the intended results due to its top down approach and was unsuccessful in gaining confidence from its end-users. The team could quickly turnaround it into a success story by approaching it from a perspective of below **five pillars of**

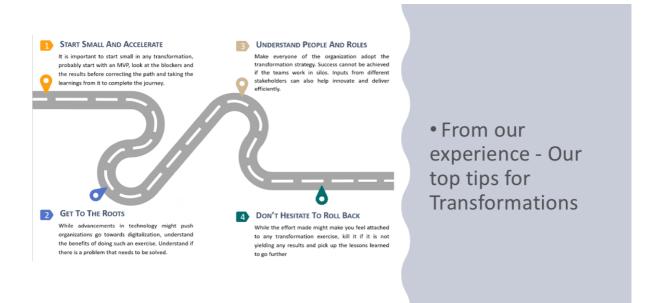


• Many organizations often look at digital transformation as a standalone exercise carried out by specialized teams who may have successful transformation experience in similar projects. Often observed, the project planning in conducted in silos with fragmented teams whose priorities, problems, skills, ways of working are different from those of the organization. While this might fast-track the project, an integrated approach taking into consideration the five pillars of a successful transformation (depicted below) will yield better results, in terms of user satisfaction and improved odds of success. If done in any other way, the digital transformation will prove to be a mere technology upgrade exercise and fails to harness its full potential.

01	02	03	04	05	
PEOPLE	PROCESS	TECHNOLOGY	INNOVATION	DATA	
Understand the people who will be impacted by the transformation and make them part of it right from the inception. Make the people connected throughout the cycle of transformation and enable continuous feedback loops.	Every process in an organization is unique. One size fits all approach might not work if impact is across the organization. It becomes essential to track down all the impacted processes and tweak the transformation as required.	In a digital transformation project , look at all the connected technical systems. This serves the purpose of identify potential roadblocks in implementation, benefits realization from other systems, and for potential integration opportunities.	Democratizing innovation can do wonders in any transformation. Have an innovation funnel, pick up transformation through the bottoms up approach and choose best external partners for innovating to bring outside viewpoints.	Millions of data points will not make sense if no valuable insights are derived out of them. Identify early on what data points that the transformation can provide to identify the success criteria and further derive insights for improvements.	

Do you see a reason to transform Your Business?





Business Transformational available services in Industry

