

Managing the present while investing in the future

Competing realities: Present versus future

(CSCOs) joined the IBM Think Circle to share how they're adapting their playbooks in 2022. After 2 years absorbing significant and unrelenting shocks in their world, these Supply Chain Thinkers continue to grapple with 2 competing realities as they head into the new year: managing the present while preparing for the future. "There's no Q2 if we don't survive Q1."

In early December 2021, the world's leading Chief Supply Chain Officers

Much of the supply chain is still in survival mode, coping with product and

labor shortages, demand uncertainty, and the costs of a suppliers' market. There's no surplus financial or human capacity to do much more than keep the business running: "My leadership isn't asking how I'm thinking about 3 years from now;

they're asking if Christmas is going to happen on time." versus

"If we focus on the daily madness, we'll be left behind."

Thinkers acknowledge that this turbulence is temporary, and they need to

make time to think longer term to build resilience into supply chains that will enable a better response to the next inevitable disruption. "It's not about getting ahead; it's about not losing irretrievable ground."

As of December 2021, even before the omicron COVID

Managing the present

variant took hold, the short-term challenges that most vexed our Thinkers were cost and risk, teams and people,

Continue to cope with current constraints

and data and visibility. These challenges took on new significance as newsworthy bottlenecks made the world's population only too aware of how important supply chains are to our communities. Cost and risk Balancing cost and risk as they're trying to emerge from a disruptive pandemic environment would be hard enough,

but these Thinkers are also incorporating environmental,

social, and governance (ESG) goals to enable sustainability and circularity, even as consumers say 1 thing about sustainability and often do another. In some ways, the Thinkers say, the cost of risk avoidance has become more important than the cost of product development. "The sourcing decision is no longer to decide whether to pay more or less. We've switched to considering how long it's going to take to recover the cost versus considering the cost alone."

"Total cost of ownership is not good enough anymore. We have to integrate more variables from other sides of the business into our supply chain decision making. Even something like diversity [which] studies show impacts procurement...we should be able to model that and put

it into our cost considerations." "It's not that we don't want to invest in sustainability strategies... but when we have unprecedented cost increases on top of unprecedented cost increases, things get squeezed."

"One reason why we're doing digital transformation is

sustainability. We can't get where we need to be by just

reducing transportation and paper alone. But next year

is going to see analytics and decision making based on data instead of gut feel."

While the short-term challenges threaten to be all

consuming, Thinkers are keenly aware of how the pandemic

accelerated change. One said it feels like, "there's been

previously encountered resistance. In 2022, technology

and transformation investments, focused on supply chain

talent-diverse talent.1

"If you don't have a diverse workforce, it's impossible to manage the complexity of supply chain disruption. No 1 person can connect all of the dots."

Given that almost 40% of jobs in the United States alone

are supply chain related, there is voracious demand for

"Our biggest challenge is keeping our people motivated and running." "Leaders will tell you they don't have enough people, but

when you look across the organization in specific roles,

there are plenty of people, but they're in the wrong spot or

in the wrong role. We have to reevaluate our org structure and create different models." Data and visibility They know unreliable supply is driving an inevitable yet dreaded bullwhip, but they don't have the data,

and hard slog."

"Right now, product availability is THE metric. Our sourcing markets have changed from a buyer's market to a supplier's market...and that's not changing, at least not next quarter."

"With very deep constraints, we're working closely with

transparency, or ecosystems to avoid it...this time.

product development to modify products at speeds never before reached. To get there, we must understand data...from demand management across outsourced manufacturing. The need for that data transparency has

never been as urgent as now." "Leveraging consumer insights from our retail operation and spinning the data into something meaningful for wholesale is critical to our success. We haven't been great at it historically, but the pandemic has forced us to get better, and this has set us apart."

and respond to unplanned events.

supply chain, too."

In summary: "Next year is going to be a busy

5 years of change in 1 year." IBV data shows that the COVID-19 pandemic accelerated digital transformation at 59% of organizations, and 66% of executives say they have been able to complete initiatives during the pandemic that

special (human) attention."

Shaping the future

Aim to accelerate...fast.

collaboration, transparency, and decision making, will be critical to building a longer-term strategy and shifting the balance from reacting to the pandemic to preparing for the next normal. Automate decision making: Listen to the algorithms Even when supply chains achieve their goals and metrics such as through-rate, it can come at a huge cost to overcome the variance, nuance, and noise in the chain. Investments in AI, modeling, and algorithmic decision making are allowing supply chain systems to do what no human could have done: create forecasts for more than 70% of SKUs through statistical models or dynamically control millions of stock items. "The way forward for us is to let the system—rather than

human planners—define the rules for us. Then we can define

exceptions for the high-value, high-volatility items that need

"The algorithms are working because the underlying stuff

is stable...and they can quickly distinguish between what's

"I have faith that if more companies listen to algorithms versus humans, we may be able to solve the global bullwhip." Achieve real-time visibility: **Build tech-enabled ecosystem partnerships**

has reduced the amount of stockpiling and improved trust along the chain.

to deliver granular end-to-end transparency and visibility

into where inventory is along the chain. The increased

level of visibility, available to all ecosystem participants,

stable and what's much ado about nothing." Some industries are using blockchain-enabled networks "As the blockchain network expands globally, the amount of data is humongous. How do we utilize that most effectively?" "The key to future disruption will be partnering and not trying to go it alone to deal with our connected bullwhips." **Design for disruption:** Assume instability as the next normal

Others are turning to supply chain control towers that bring

AI and machine learning, control towers help CSCOs better

predict disruptions, improve resiliency, manage exceptions,

"It's not just us that benefits from the blockchain network.

Everyone who participates gets more visibility in their

a landscape view of both internal and external situations

that may impact operations. Used in combination with

dissipate, but climate change, ongoing geopolitical tensions, changing expectations of work, and the next black swan event are still going to require transformation

at a global scale. The Thinkers will spend some of 2022

transformation and technology—the things they know will

build resilience—that won't show benefit or cost savings in

current organizational governance models. And they will

crafting a method of valuing long-term investment in

These Thinkers anticipate that COVID disruption will

continue to find ways to motivate and retain their top talent, because as one Thinker said, "Our people are going to make us or break us." "Our sourcing model thinks planetary, but in times of disruption, all countries are thinking of their borders. That equation is a square peg for a round hole." "If we're building a system that sees and manages across the whole organization, why are we not doing more to think about the organization of the future?" "You can have the best tools on the planet, but if you don't have the right people to operate or interpret them, you'll have a hard time."

"Manage the present; shape the future. Forced by the pandemic into a predominantly reactive mode, many supply chain leaders

We live in both

camps. Digital

transformation

will ignite and

will help."

"If we can give people the ability to make quick decisions

and look at coming out of this crisis, we can all be stronger to set up the future. We need to make sure our strategy is in place to know where we're going."

unreliable supply, and an incredibly tight talent market. But many realize that the playbook for 2022 and beyond must have 1 foot in the present and another in the future—a future that may continue to subject supply chains to instability like we've not experienced before.

A closing word: Tightrope

As these leaders find their balance between short-term survival and long-term vision, the Think Circle will continue to discuss the transformation of global operational models when volatility is the norm—in demand, in supply, in labor, and more and customers and investors alike expect ESG and circularity as a baseline. We will also continue

have spent nearly 2 years laser-focused on the constant pressures of connected bullwhips,

to share how these updated playbooks must reconsider real-time demand and supply signals, continuous and intelligent planning, and collaboration.

Related **IBV** reports ibm.com/thought-leadership/smart/talks and other IBM Think Circles for Supply Chain references ibm.com/thought-leadership/institute-business-value/think-circles/supply-chain

Smart Talks with IBM, hosted by Malcolm Gladwell, Season 2, Episode 4, "Managing supply chain volatility in the height of the shopping season" with Jonathan Wright, Global Managing Partner for Supply Chain Consulting at IBM

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IBV Global Consumer Study: "The last call for sustainability"

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