



Supply Chain Leadership

Distinctive approaches to innovation, collaboration, and talent

October 2014

Deloitte Consulting LLP



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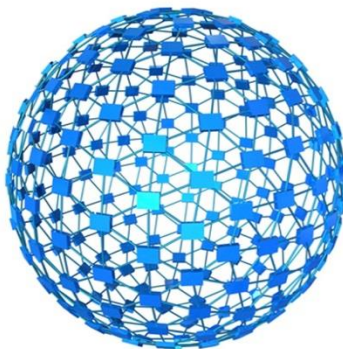
Professional Services means audit, tax, consulting and financial advisory services.

The treacherous global landscape

**Intensifying Competition
and Rising Customer
Expectations**



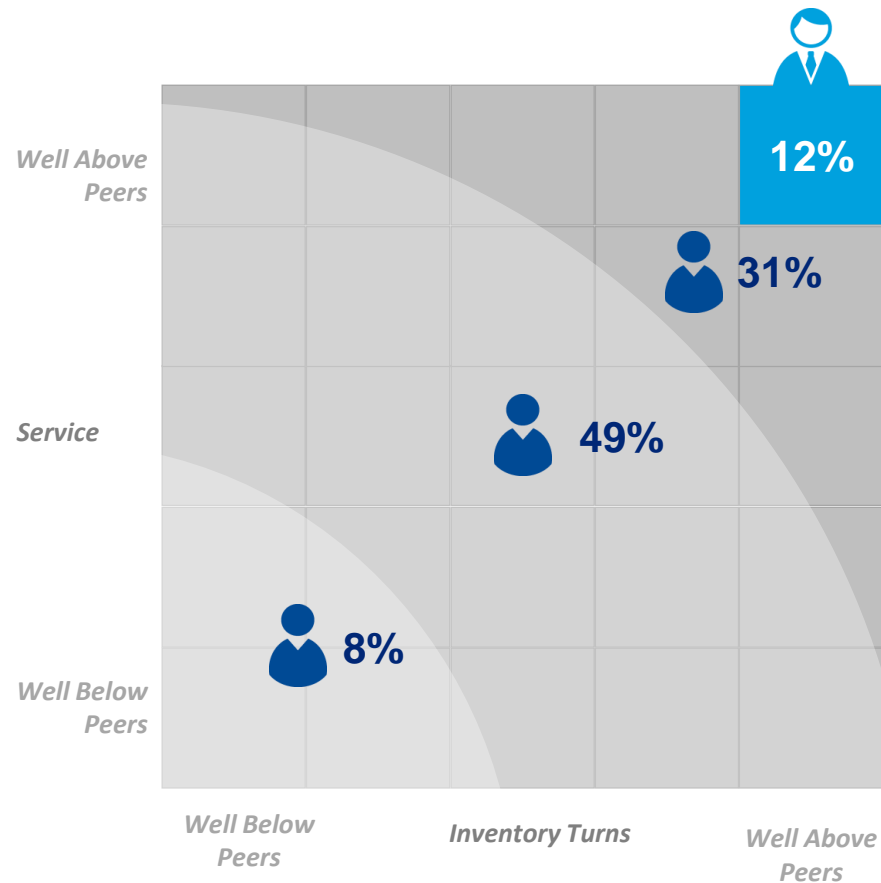
**Increased Global
Complexity**



**Changing Regulatory
Requirements**



Breaking the efficient frontier

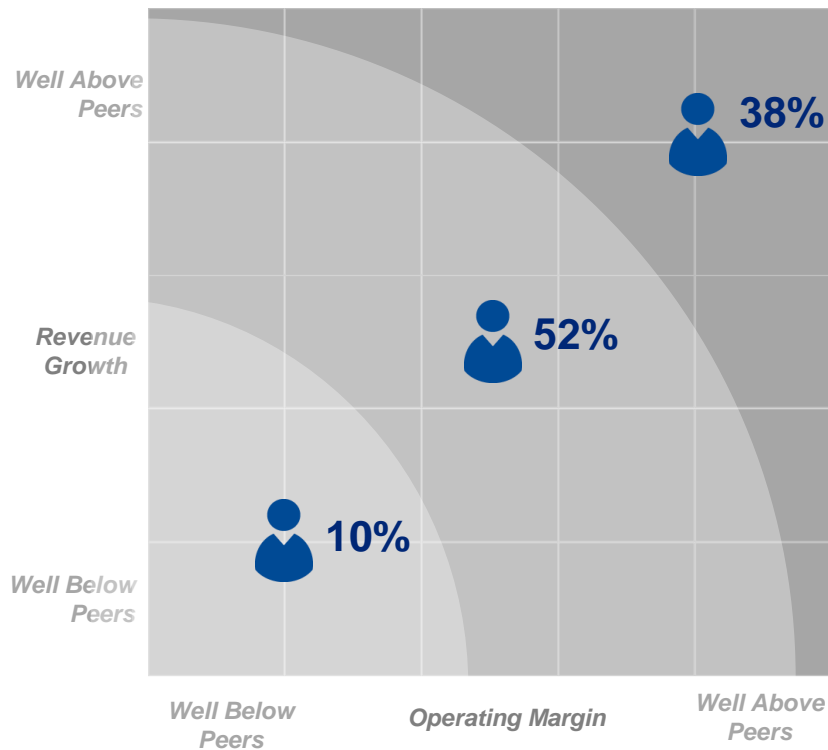


Source: Deloitte's 2014 Global Supply Chain Survey

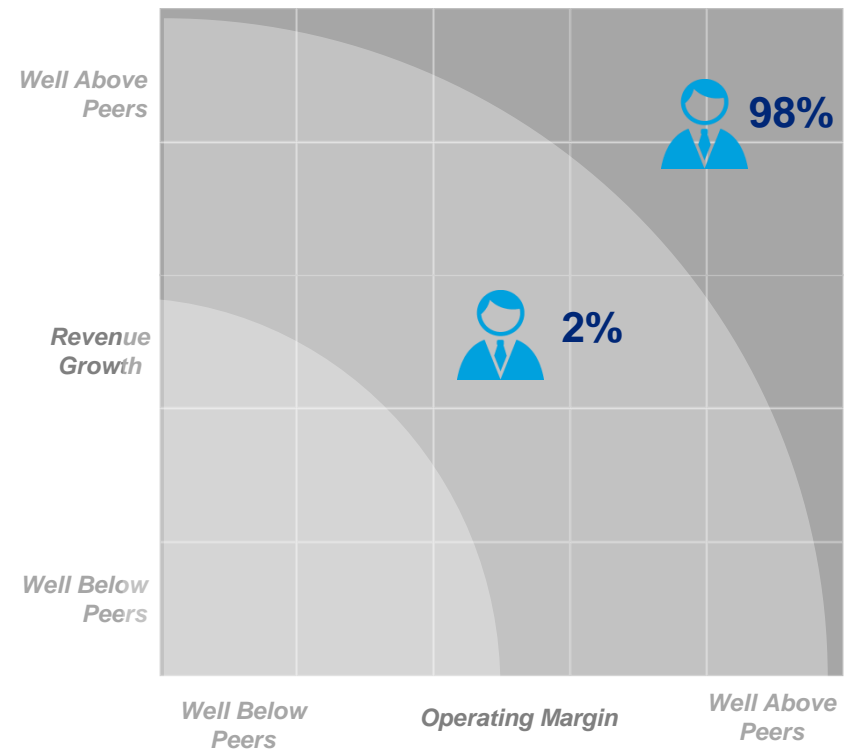
Supply chain excellence = Financial excellence



Supply Chain Followers

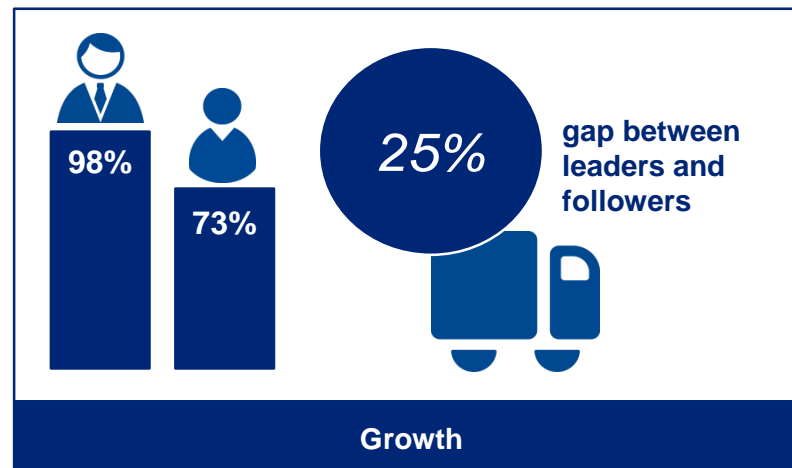
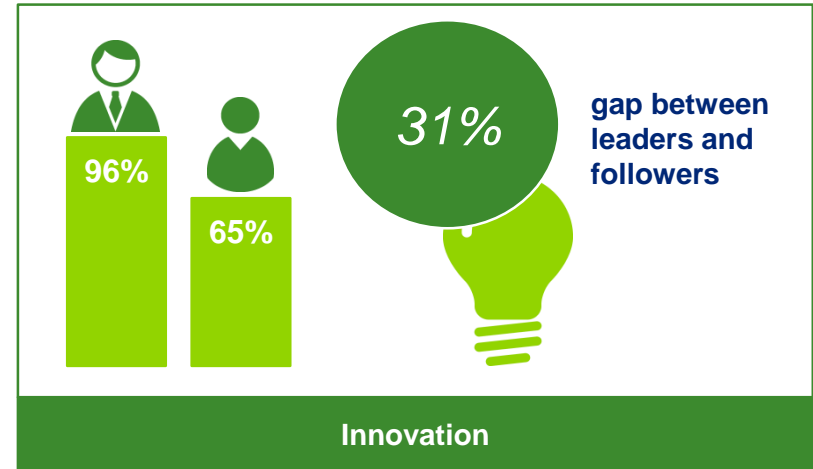
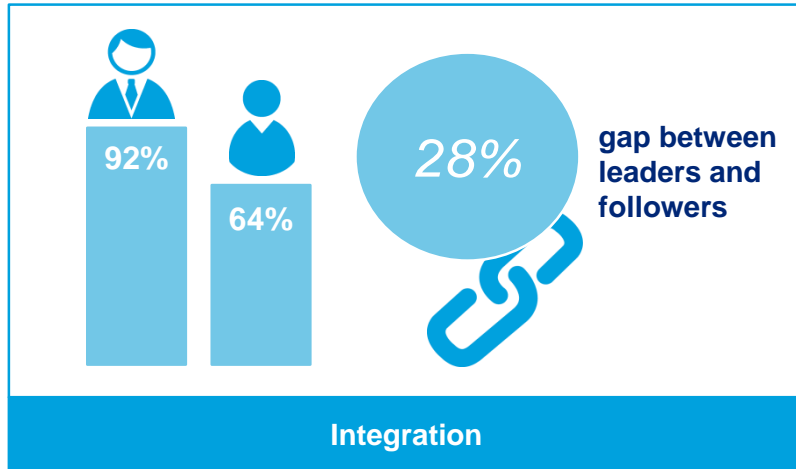


Supply Chain Leaders



Supply chain leaders more likely to concentrate on integrating, innovating and growing

Supply chain Objectives



Source: Deloitte's 2014 Global Supply Chain Survey

Pillars of a sustainable competitive advantage



Supply chain as a strategic function



Senior Leadership

More often headed
by EVP/SVP

56%



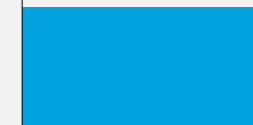
33%



Strategic Alignment

More likely to align
with corporate
strategy

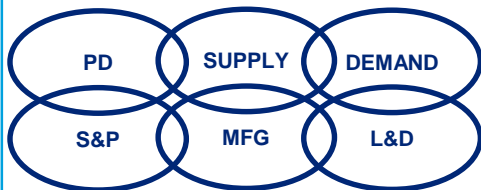
Corporate strategy



69%



36%



End-to-End Span of Control



Most Followers owned 3 or less

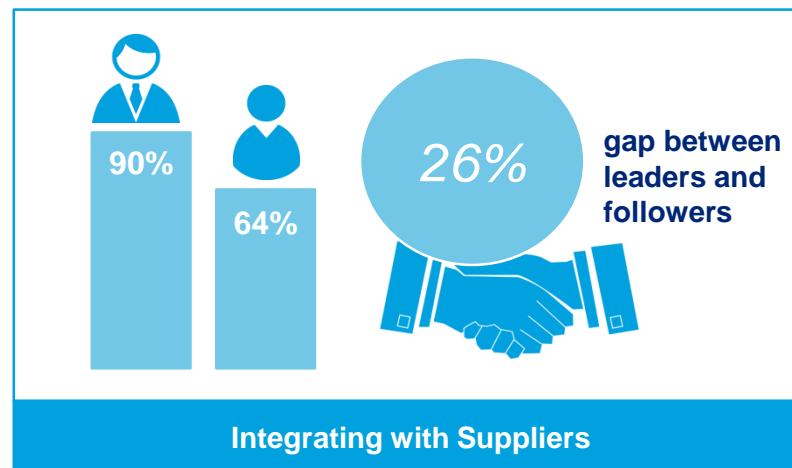
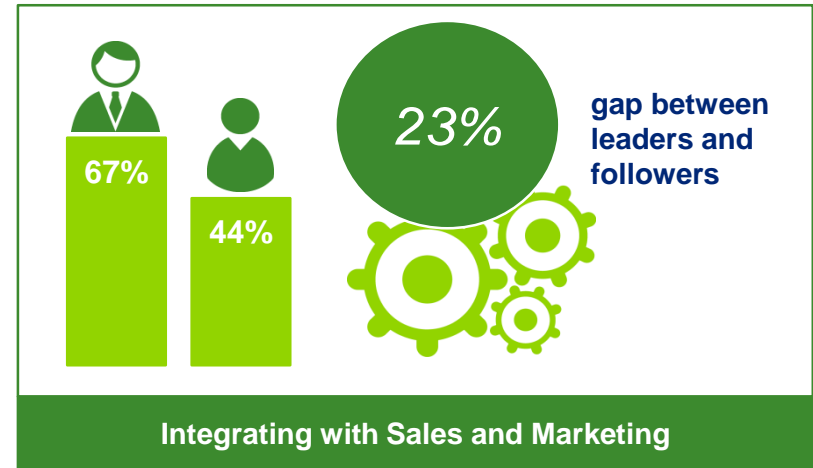
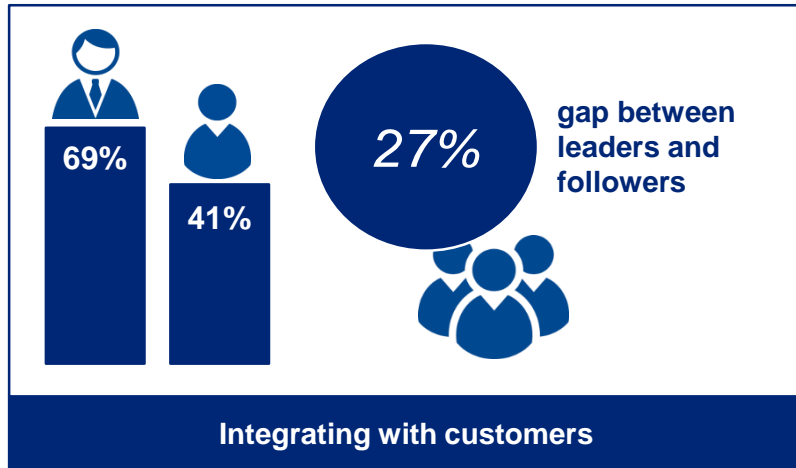


Roughly half of leaders owned all 6



Supply chain leaders more likely to concentrate on integration

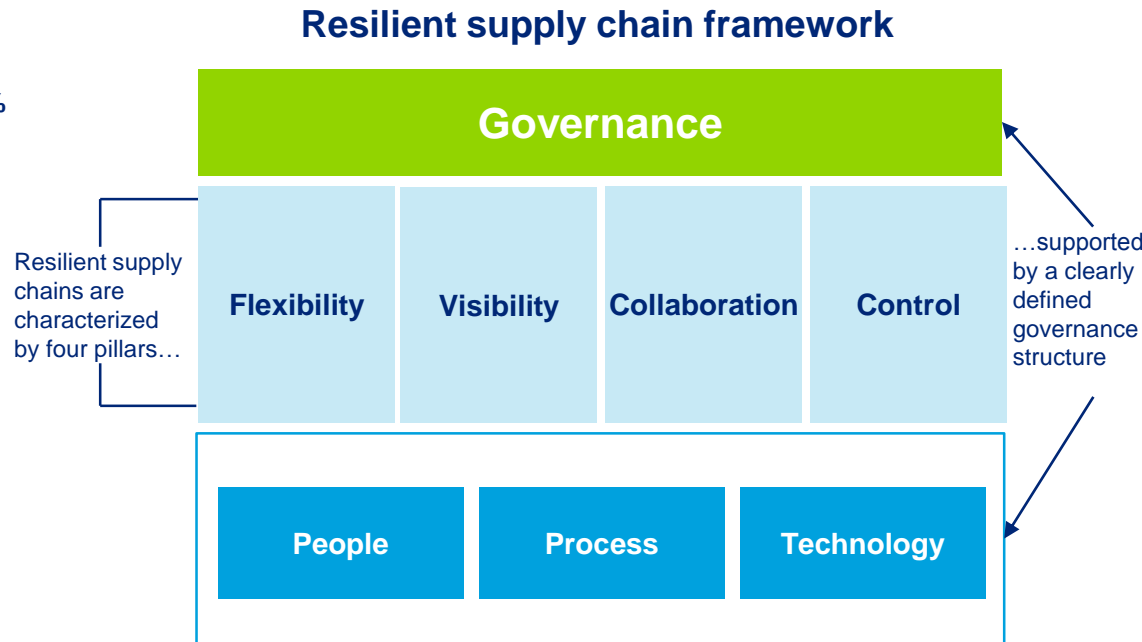
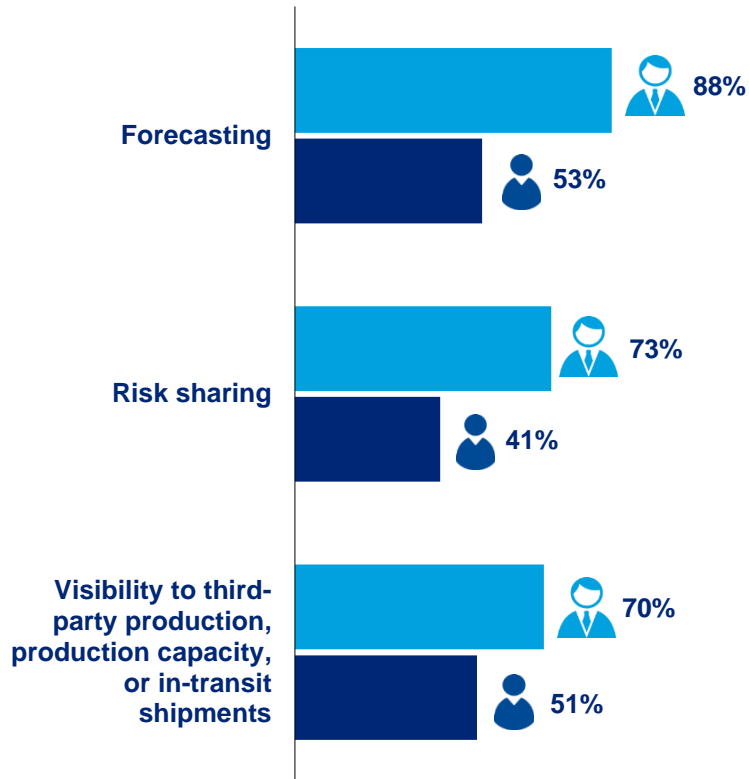
Supply chain Challenges



Source: Deloitte's 2014 Global Supply Chain Survey

Reliance on third-party suppliers as a virtual extension of a supply chain

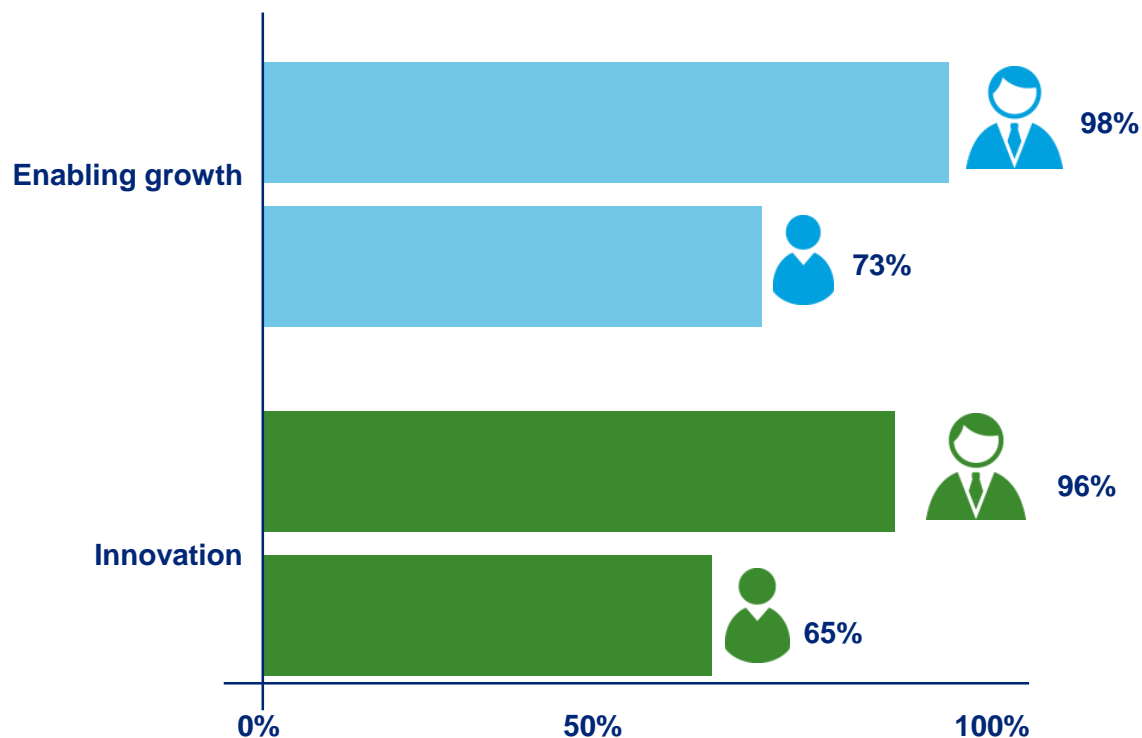
Coordination with Third-Party Providers



Source: Deloitte's 2014 Global Supply Chain Survey

Supply Chain Leaders have a mandate to fuel growth through innovation

Supply chain objectives identified as extremely or very important



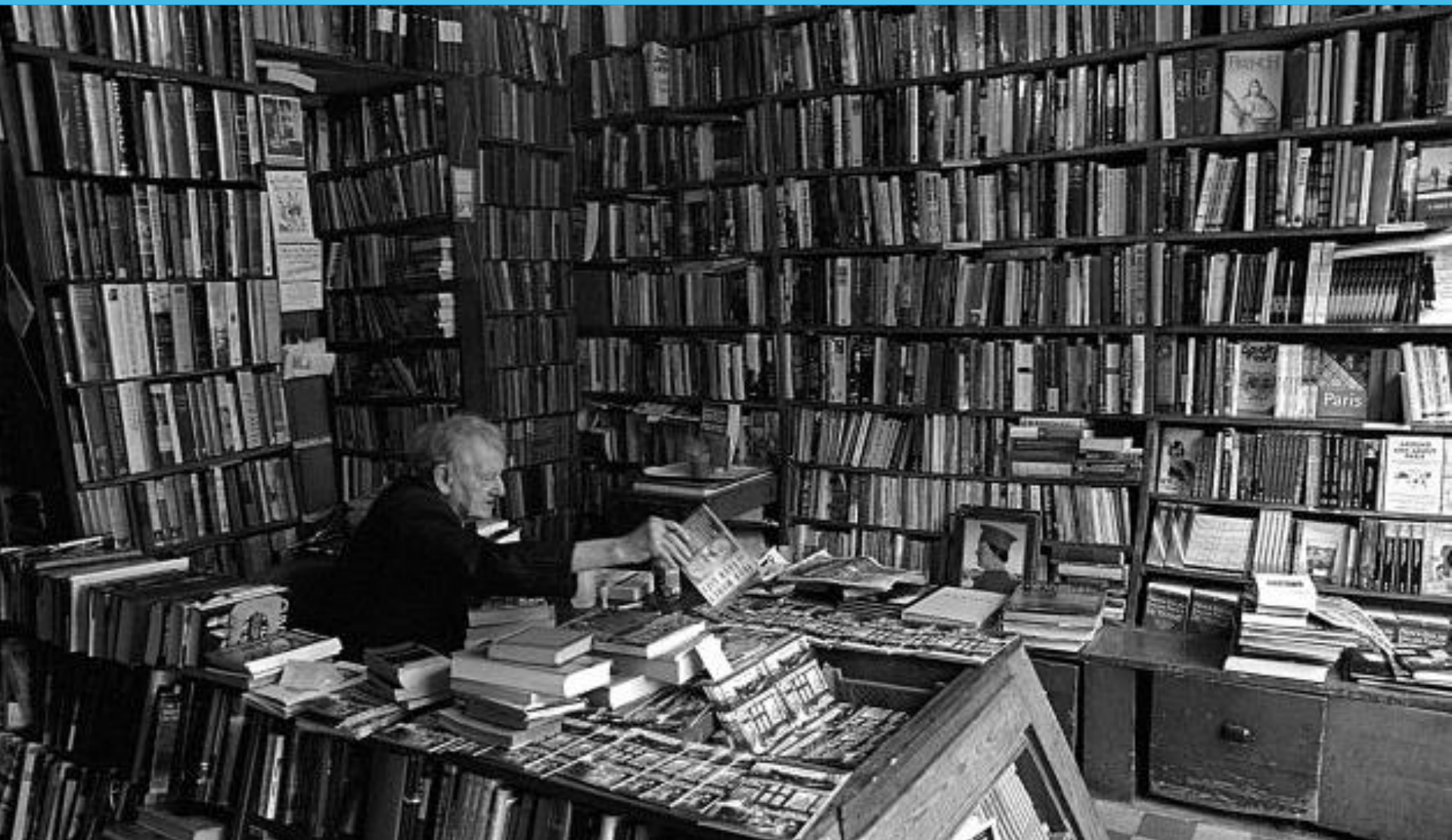
Leaders



Followers

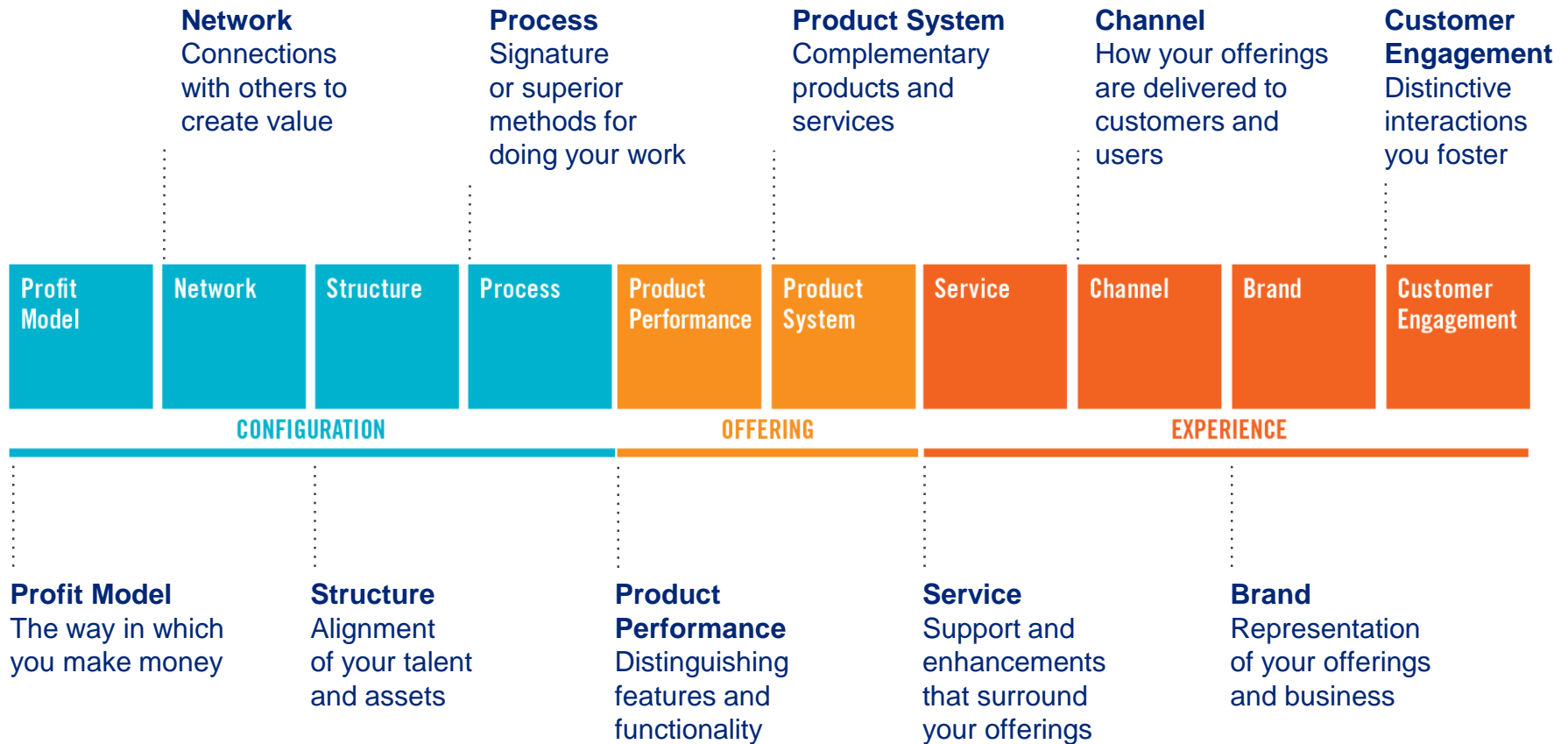
Source: Deloitte's 2014 Global Supply Chain Survey

Evolution of the bookstore: 1994



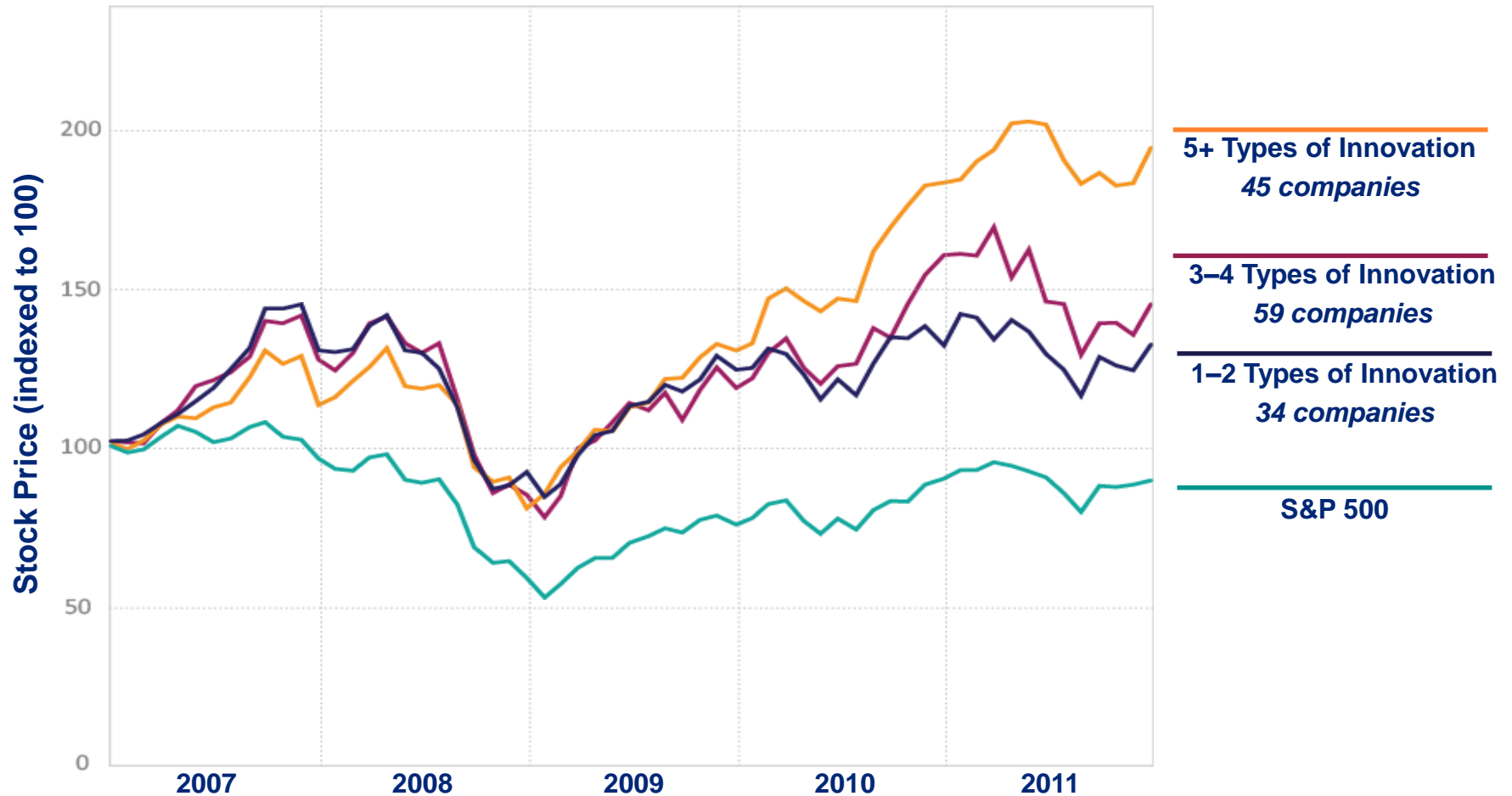
Innovation is not invention

TEN TYPES OF INNOVATION



More innovation types = superior financial returns

5-Year Indexed Stock Price Returns of the Top Innovators vs. S&P 500



Potentially disruptive technologies offer platform for innovation

Emerging Technologies in Supply Chain



3D Printing

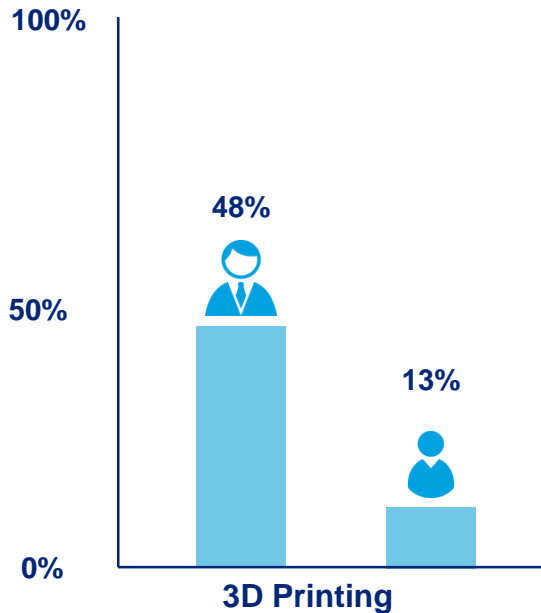


Advanced Analytics

How will 3D Printing impact your industry?

Extensive Use of 3D Printing

Percentage Responding "Use Extensively"



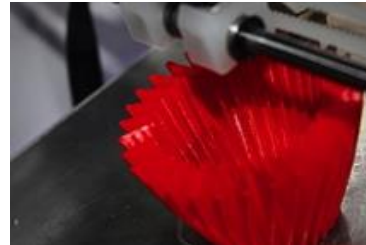
Source: Deloitte's 2014 Global Supply Chain Survey

Product Innovation

Product Evolution



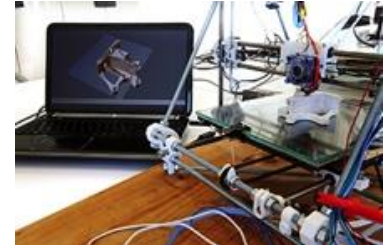
Stasis



Business Model Evolution



Supply Chain Evolution



Supply Chain Innovation

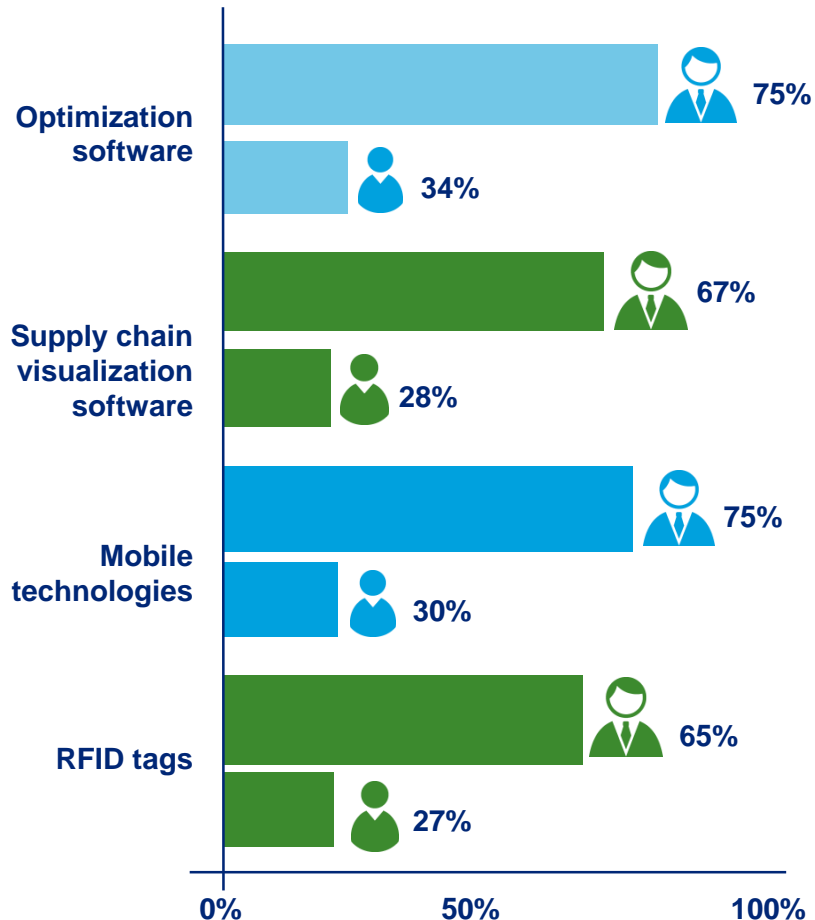
"[3D Printing] is growing rapidly in ways that promise to replace the almost 100-year-old mass-production model that defined the industrial revolution."

- Greg Emerson, The Street, October 14, 2010

Analytics as tool for innovation and integration

Extensive Use of Analytics

Percentage Responding "Use Extensively"



Source: Deloitte's 2014 Global Supply Chain Survey

Analytics Applications

Operational
Dynamic Re-routing



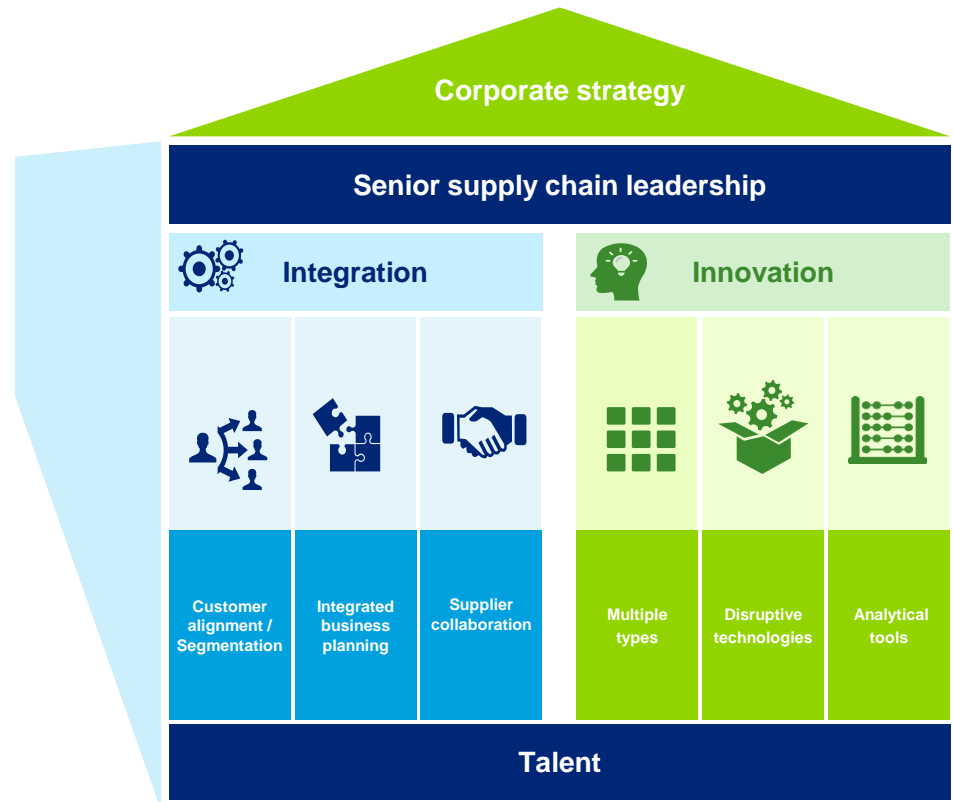
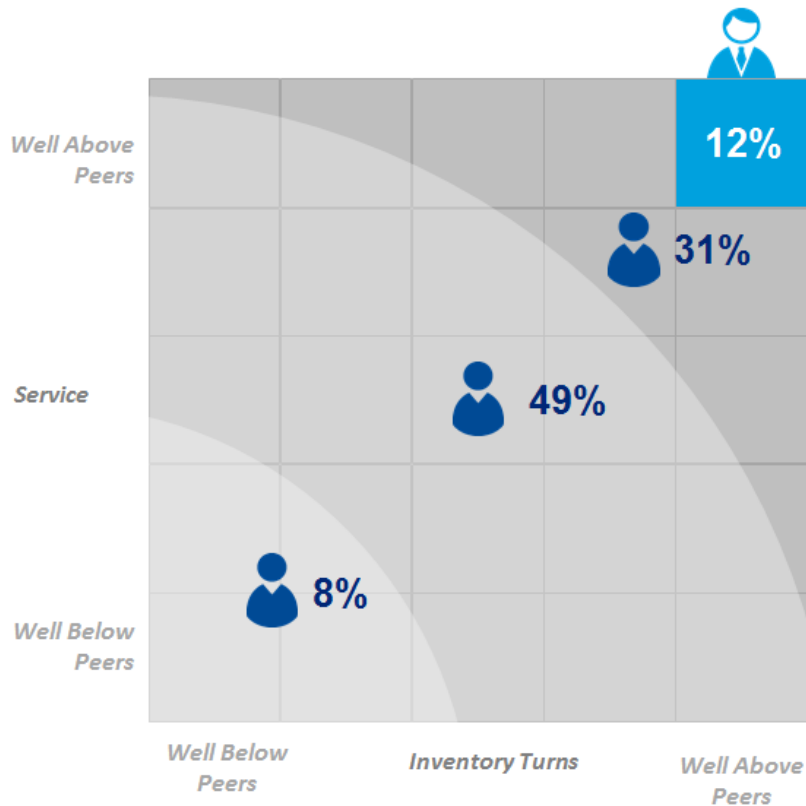
Tactical
Source Switching



Strategic
Product
Complexity Reduction

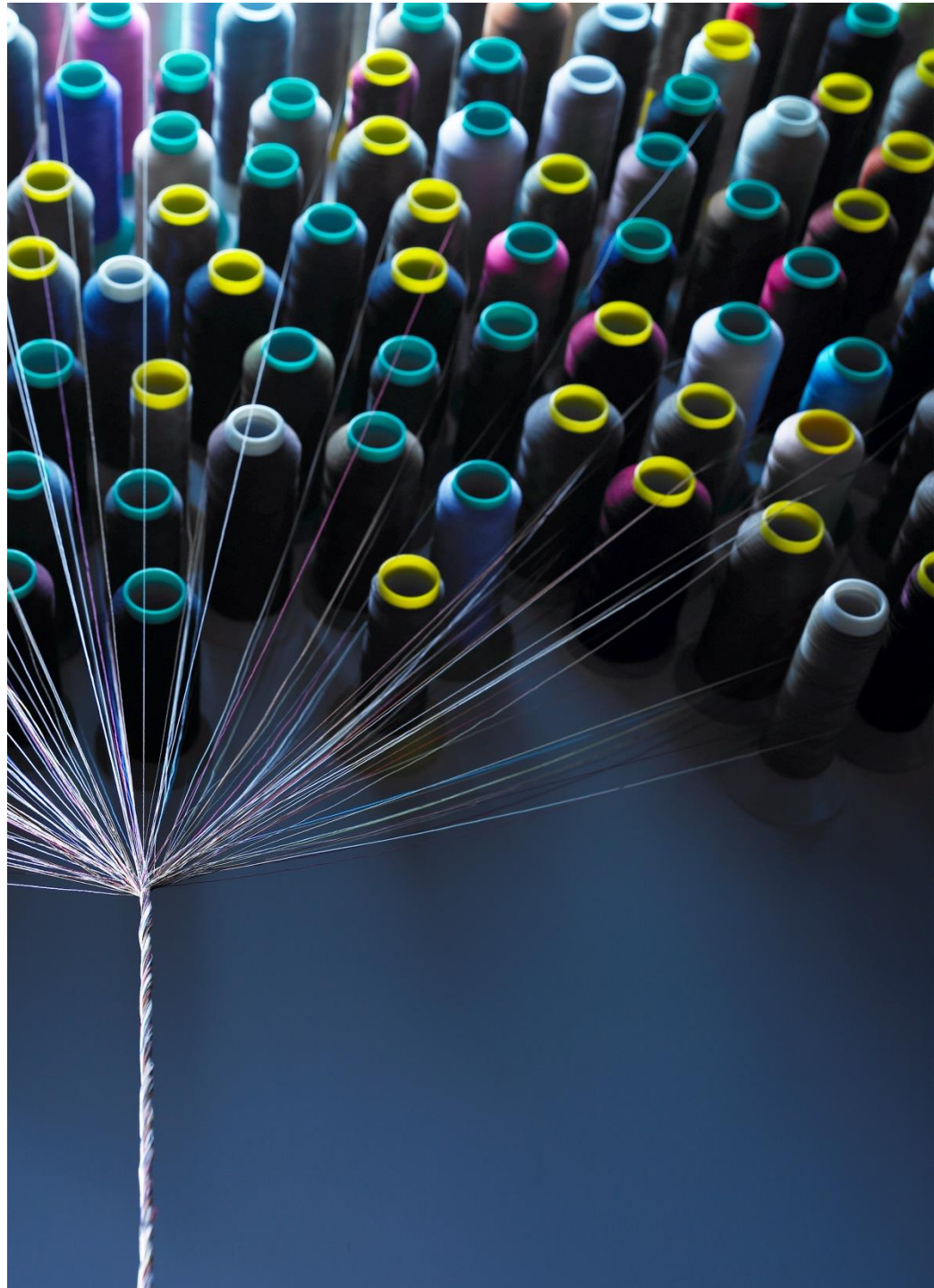


What will it take to stay on top?



Source: Deloitte's 2014 Global Supply Chain Survey

Sustainability trends in the marketplace



BEST GLOBAL GREEN BRANDS 2014

Interbrand | Deloitte.



Perception Performance

www.bestglobalgreenbrands.com

BGGB evaluates brands based on environmental sustainability perception and performance

Best Global Brands

- In order to be eligible for BGGB 2014, a brand must be in the top 100 of Interbrand's 2014 Best Global Brands (an assessment of brand value)

Perception

- Public **perception** of brands' environmental sustainability is evaluated through surveys in the 10 largest global economies

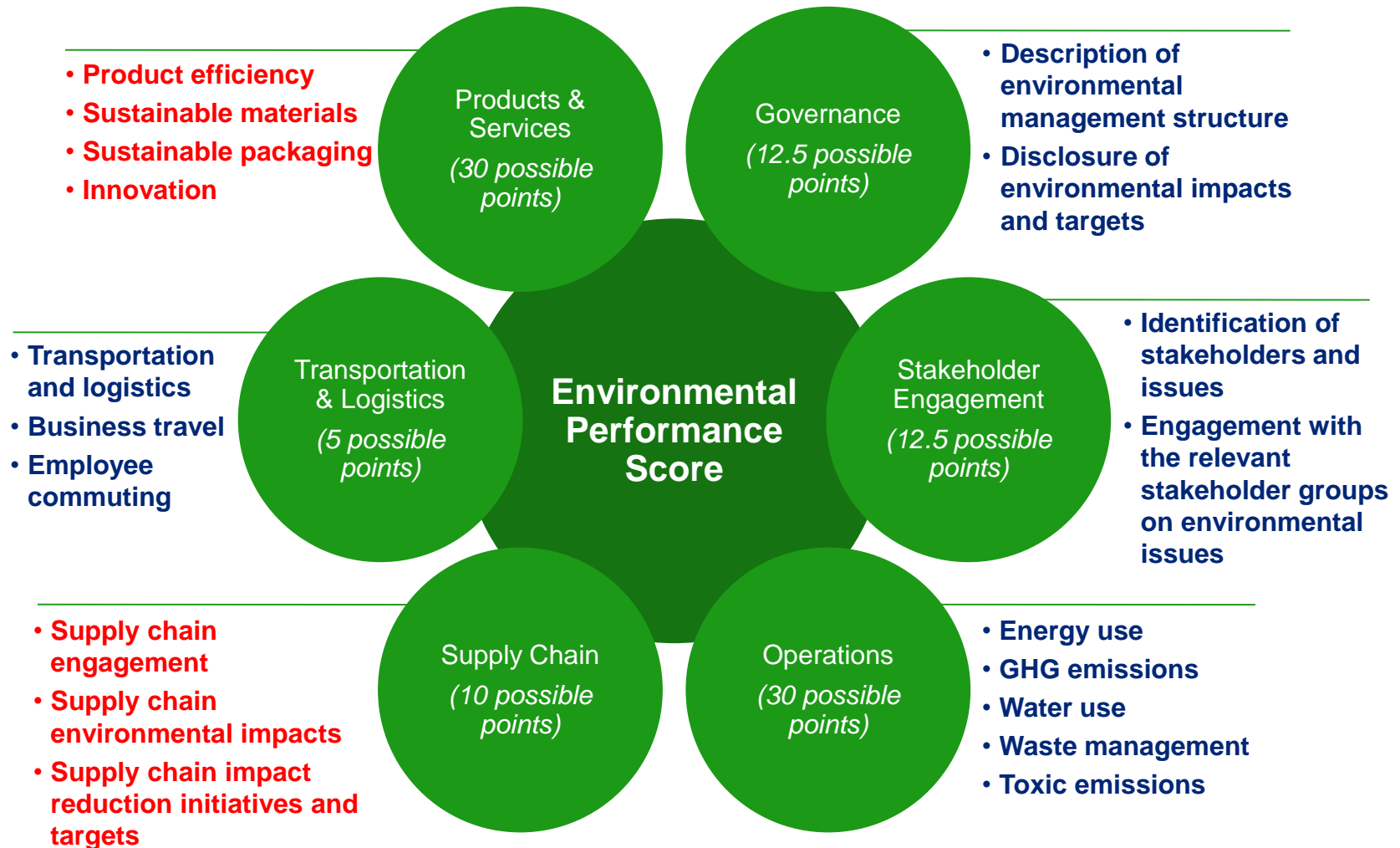
Performance

- Environmental sustainability **performance** is evaluated through an assessment of brands' publicly available environmental sustainability information and data, typically in corporate sustainability reports and websites and from information from the Asset4 database

Gap

- The **gap** is the difference of the performance and perception scores, with a positive gap indicating performance stronger than perception

The performance score is calculated by Deloitte and is composed of 83 metrics across six pillars



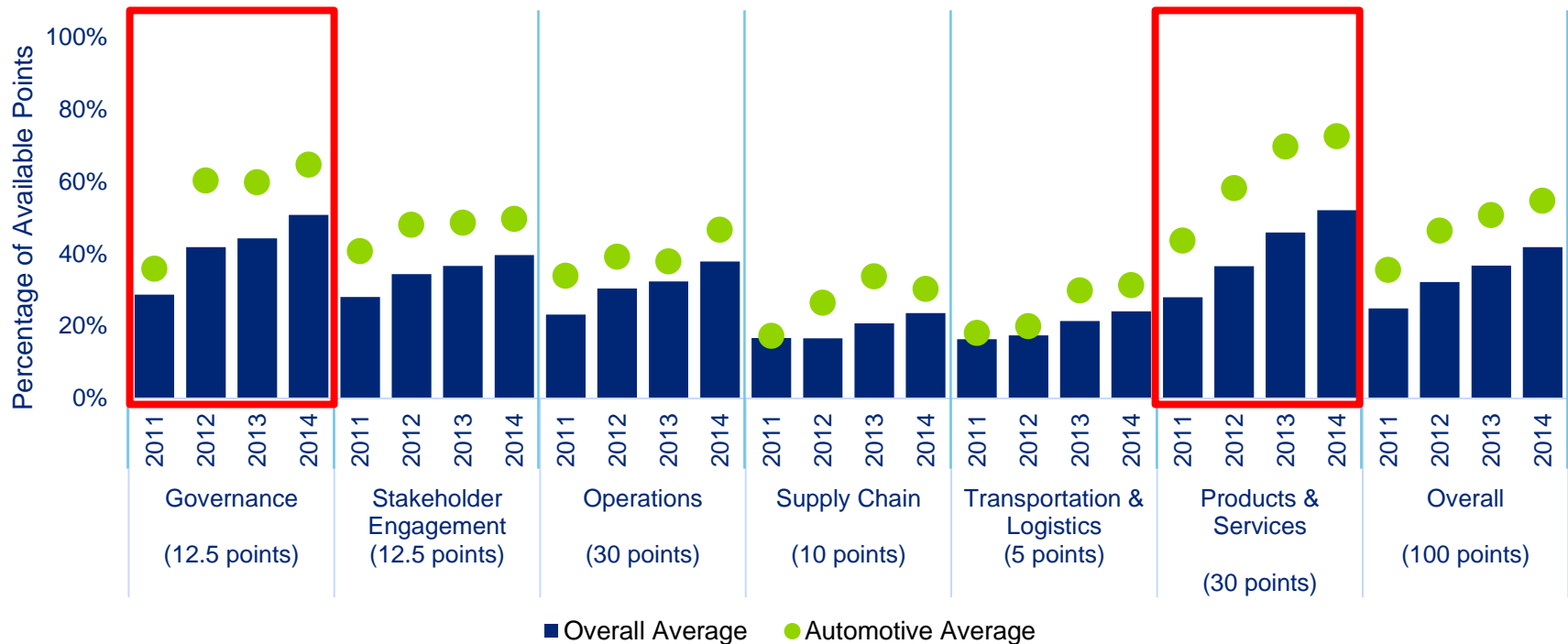
Auto companies - consistently ranked among the leaders



Perception  Performance

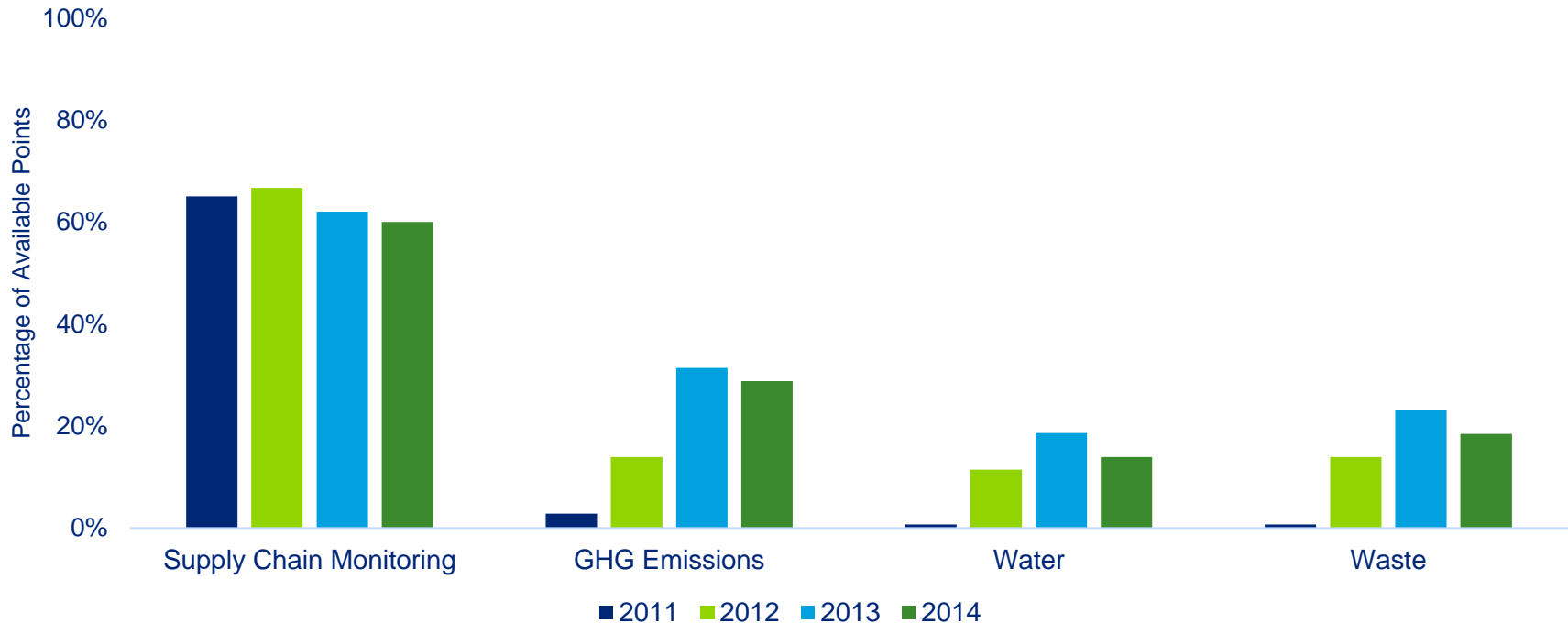
www.bestglobalgreenbrands.com

Average BGGB Performance scores are increasing



- On average companies earned **less than 55%** of available points across all pillars
- **The automotive average exceeds the overall average for all pillars and years**
- Automotive companies are particularly strong in the Governance and Products & Services Pillars

Auto companies – increased quantification of impacts



- Focus on quantifying GHG emissions first, followed by waste and then water
- Quantification of environmental impacts has increased since 2011

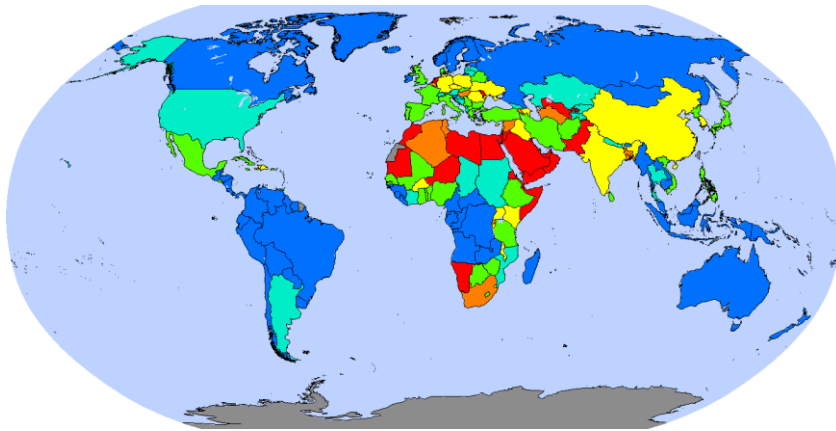
Water Risk and Stewardship



Water scarcity is projected to increase

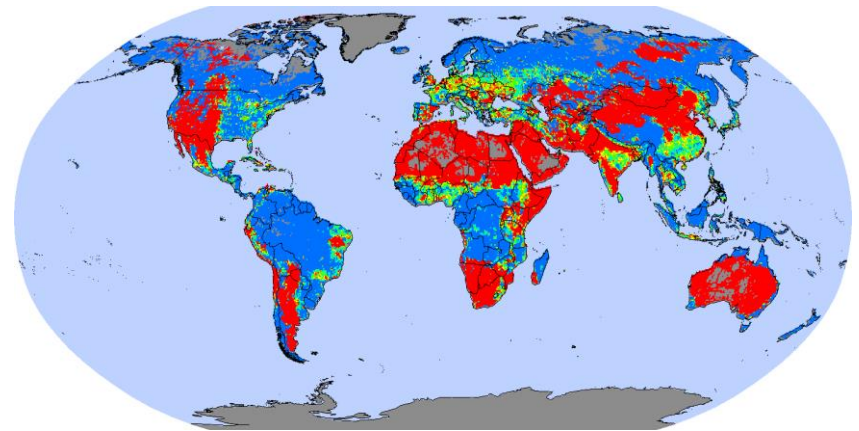
Water Availability: 2000¹

- Regions of water stress, scarcity, and extreme scarcity across Asia, Africa, and Europe



Water Availability: 2025¹

- Extreme water scarcity projected to be widespread across all continents



Water withdrawals are predicted to increase by 50% in developing countries, and 18% in developed countries by 2025.²

1 – Center for Environmental Systems Research, University of Kassel.

2 – “[Water Use Statistics](#)”, UN Water.

Water scarcity has a *current* economic impact



Supply Cutbacks



Reduced surface water deliveries of **6.6 million acre-feet** of water, or **32.5%** of normal water use by Central Valley growers

Lost Ag Production



Fallowing of **410,000** acres means higher food prices and fewer choices for consumers

Lost Farm Jobs



Estimated loss of **17,100** seasonal and full-time jobs and household income decline of **\$555 million**

Industry Decline



Direct costs of **\$1.5 billion** to the Central Valley's agricultural industry

Disproportionate Impact

60% of the economic losses will occur in the San Joaquin Valley, which is responsible for producing about **1/3** of the nation's field, vegetable, fruit and nut crops



Harm to State Economy



California GDP decline by **\$855 million**

Source 1: <http://farmwater.org/droughtupdate6-12.pdf>

Source 2: https://watershed.ucdavis.edu/files/biblio/DroughtReport_23July2014_0.pdf

Business Responses



What should we be worried about?

- Will you have access to **water in 20 years** *at any price*?
- How much will this **cost to secure**? And what strategies do you have in place to ensure this?
- What is my **business value at risk** from water risk? What is the potential for **stranded assets**?
- What are the Capex **water requirements to support growth**? And who else is competing for that water?
- **Multinational growth projections**....are they reasonable?

Water scarcity risk is a *current* business risk



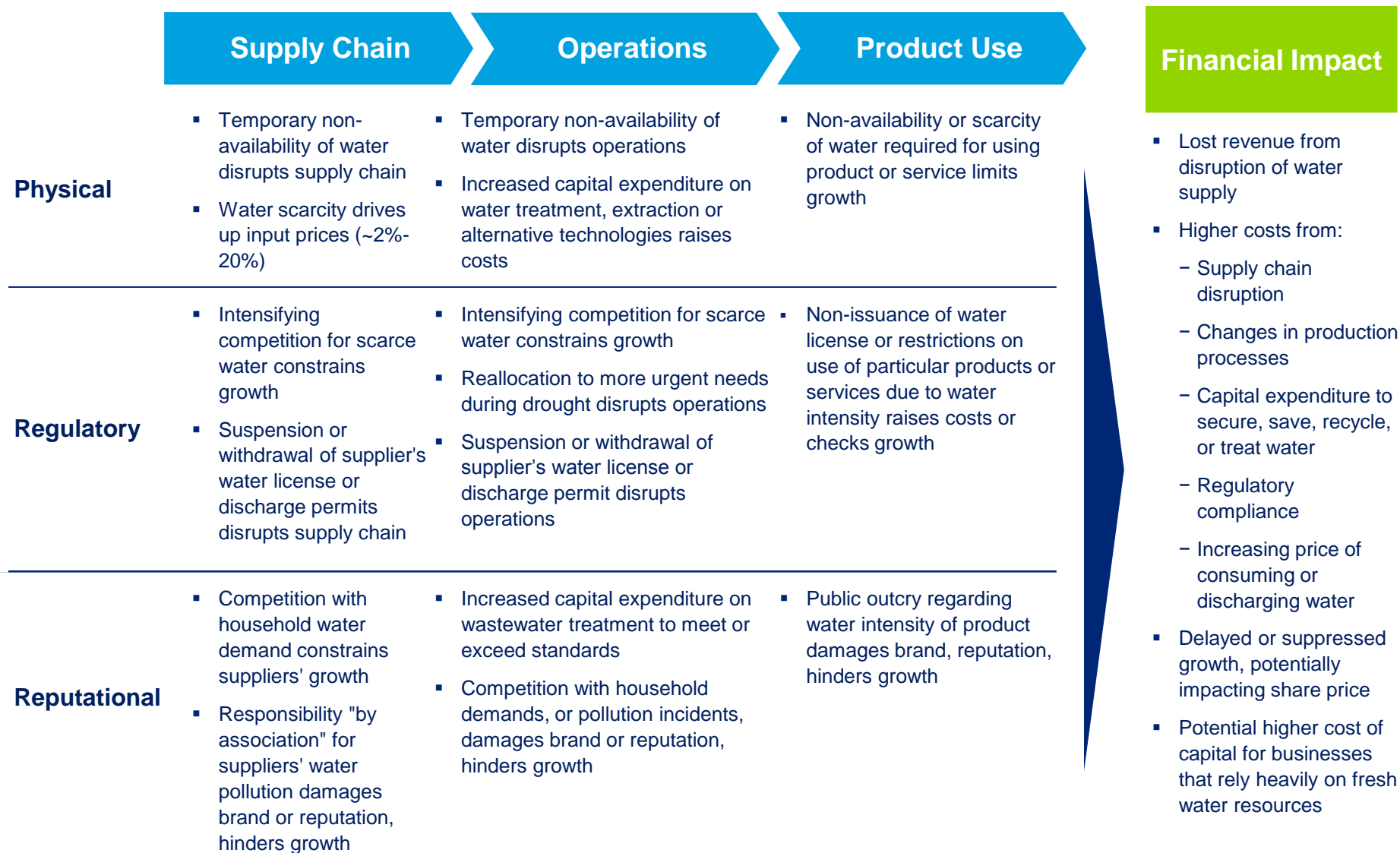
2014 World Economic Forum

- # 3 – Water Crisis
- # 8 – Food Crisis

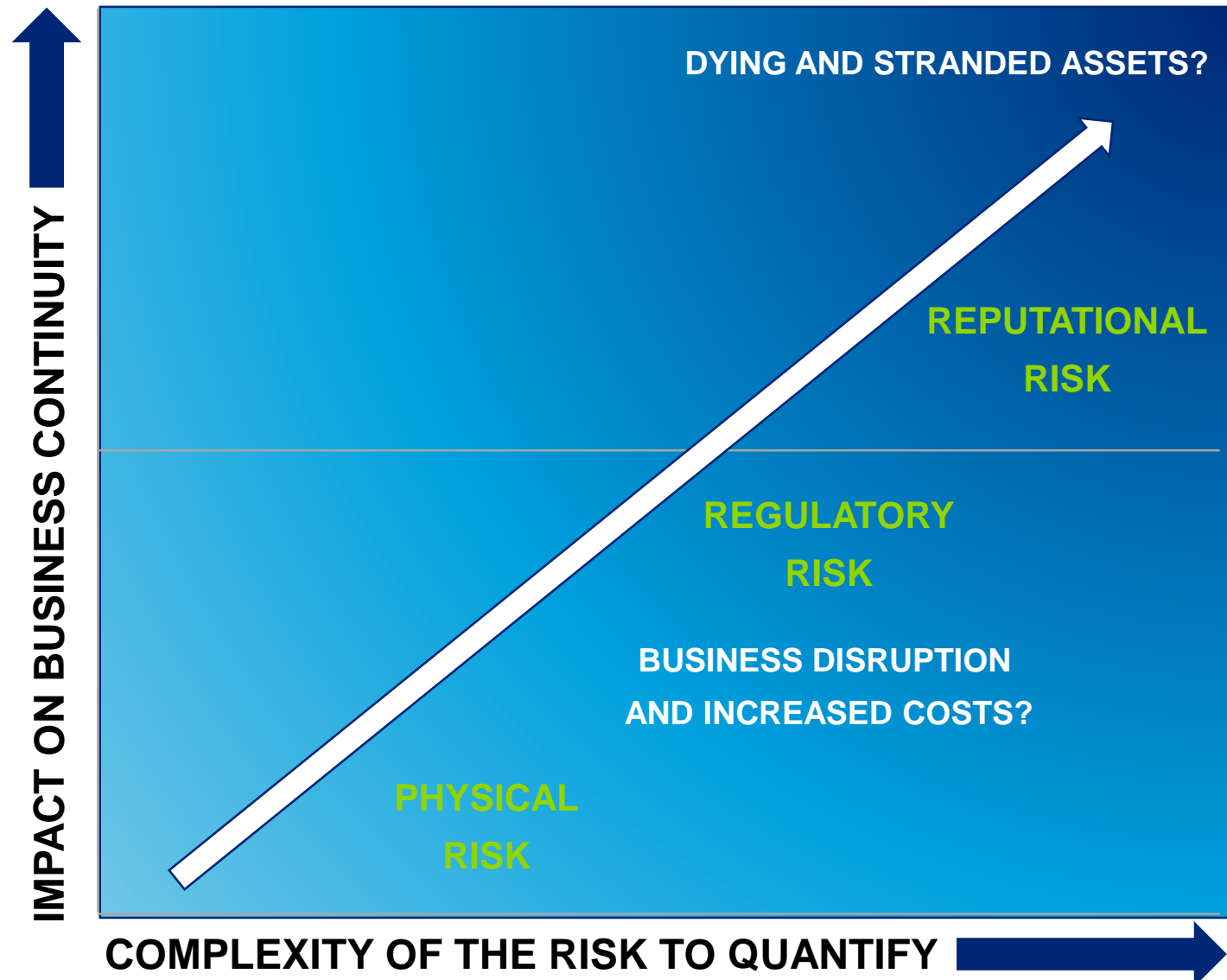
2013 CDP Water Program Global 500 Report

- 70% of respondents have identified water risks as a **substantive business risk**
- 64% of reported risks are expected to impact businesses **now or within the next five years**
- **Near-term substantive risks** reported have increased by **16%**

Water risk - physical, regulatory, reputational



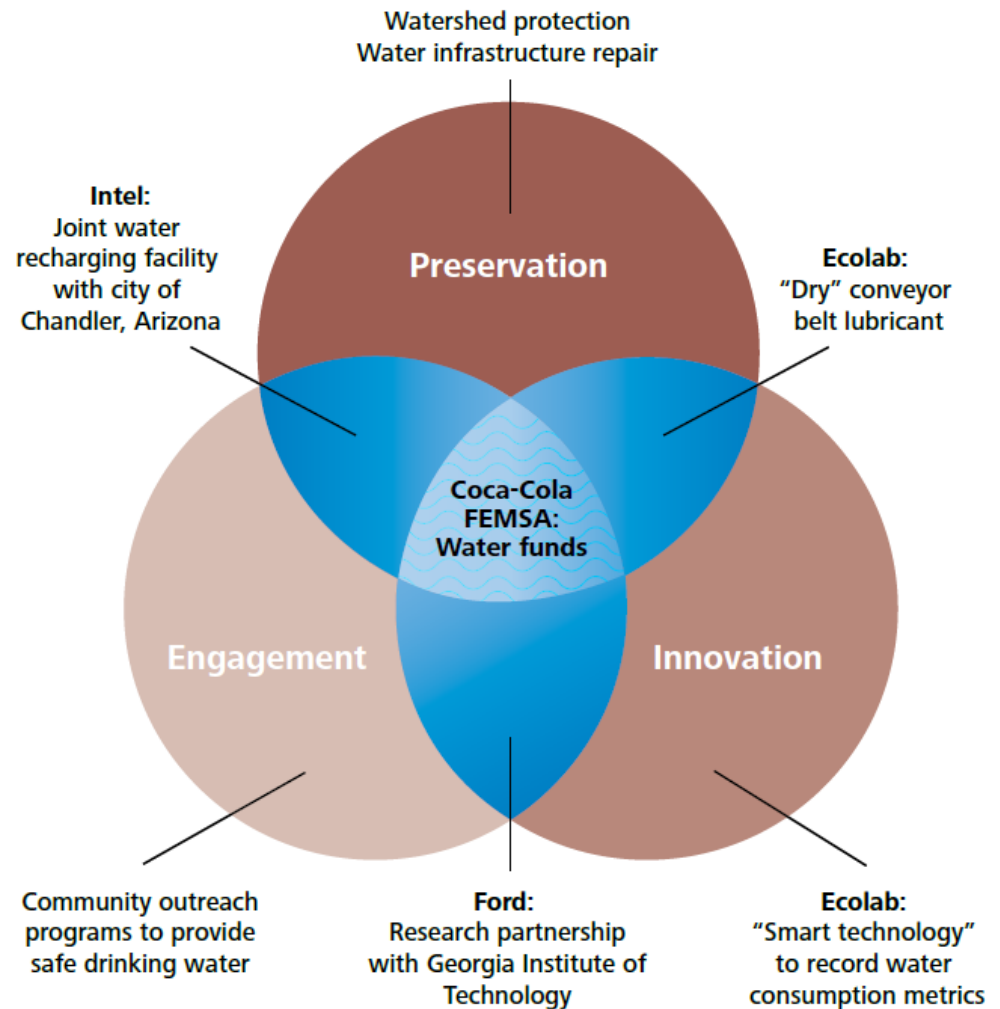
Water risk and value at risk dimensions



Elements of a water stewardship strategy

Companies should:

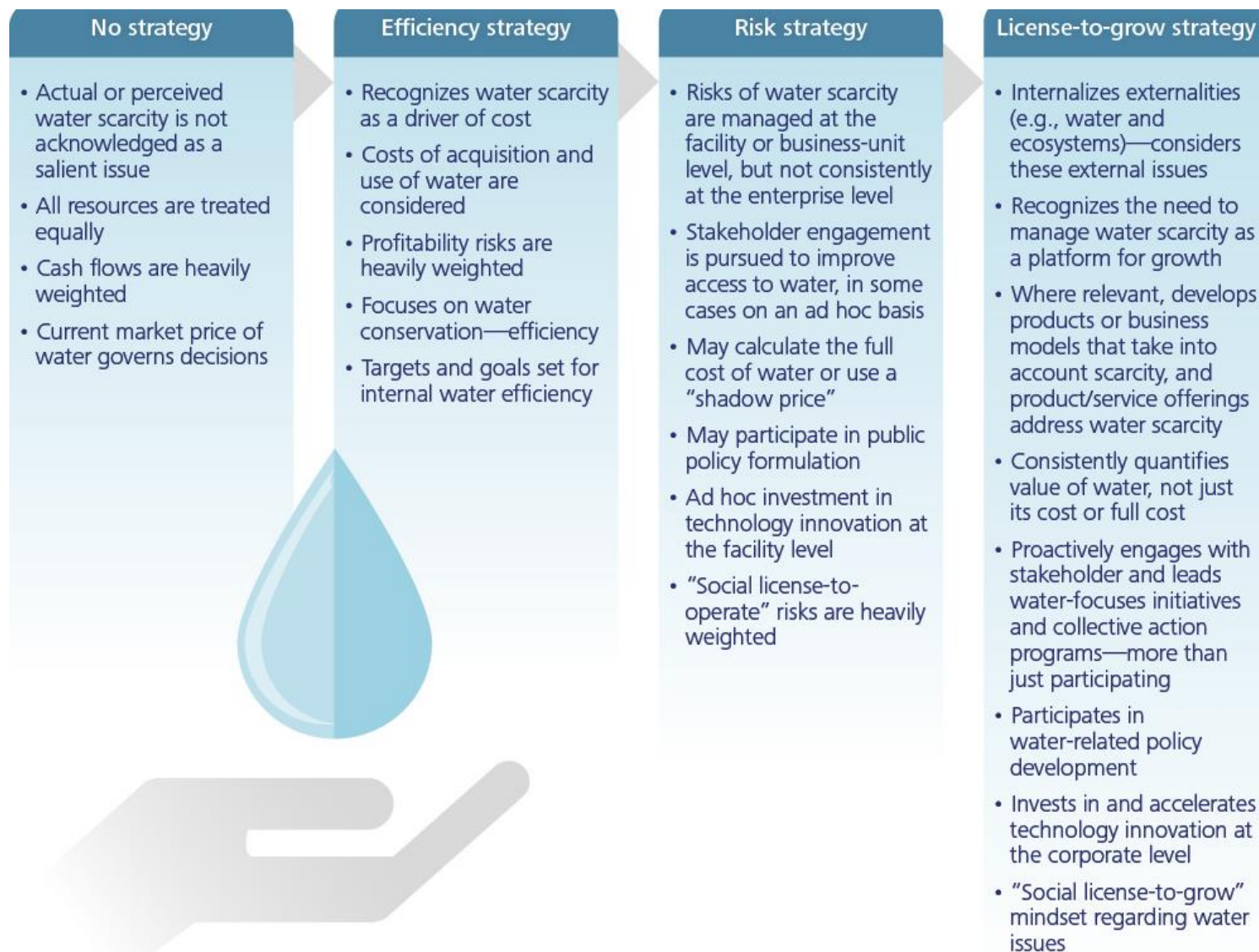
- **Incorporate water risk** into 'traditional' corporate risk management processes
- **Quantify the “real” value** of water to the business
- **Understand the energy-water nexus** and its potential business implications, set targets across the value chain
- **Increase** focus on **engagement and innovation**
- **Look for opportunities** in the overlaps
- **Make a public commitment** to water stewardship
- **Practice “radical transparency”** about water and seek opportunities to collaborate – or clear the (internal) path for collaboration



Customers often have similar goals – open collaboration for mutual benefit is a key trend

Water stewardship and business growth strategy

INCREASING VALUE AND COLLECTIVE ACTION

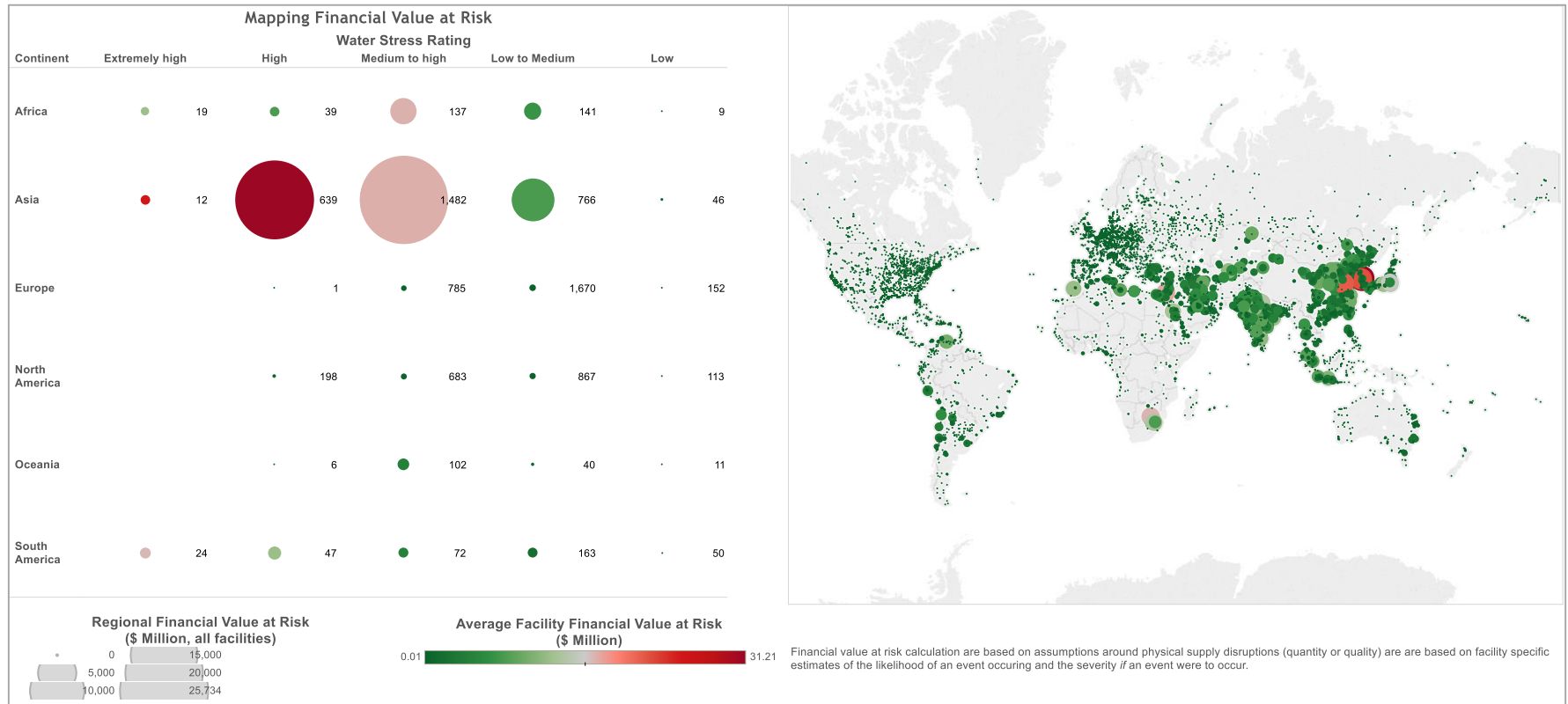


Fueling Growth: You Can't Always Buy What You Need. W. Sarni. Deloitte University Press. 2013.

Graphic: Deloitte University Press | DUPress.com

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Mapping financial value at risk (physical scarcity)



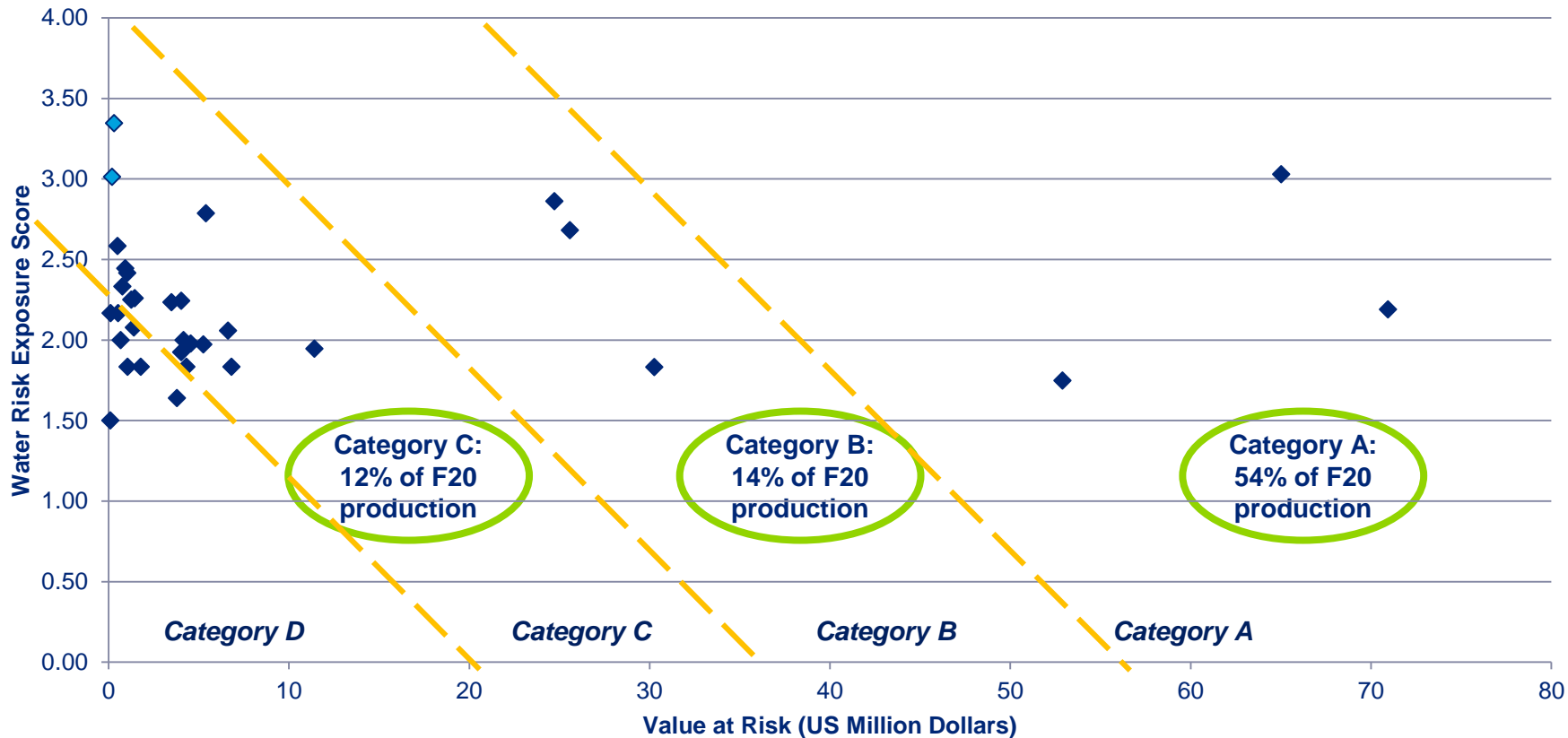
Source: Financial value at risk calculations are based on assumptions around physical supply disruptions (quantity or quality) and are based on facility specific estimates of the likelihood of an event occurring and the severity if an event were to occur

Gassert, F., M. Luck, M. Landis, P. Reig, and T. Shiao. 2013. "Aqueduct Global Maps 2.0." Working Paper. Washington, DC: World Resources Institute. Available online at <http://wri.org/publication/aqueduct-metadata-global>.

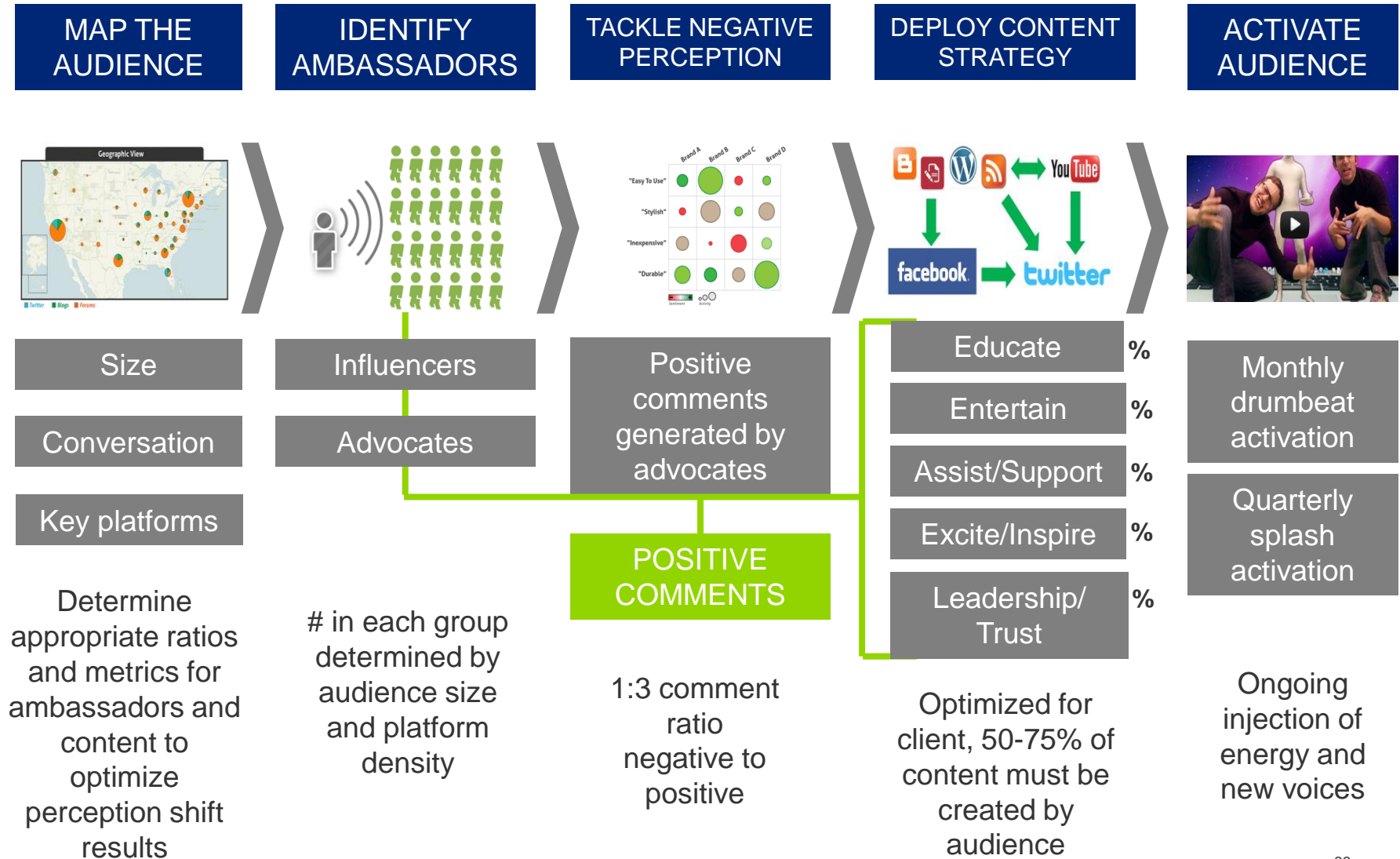
Physical risks and “value at risk”

Plotting the water risk exposure score against potential value at risk identifies logical breakpoints for risk mitigation activities – this does not indicate priority, but differentiates between the requirements.

Categorization of Potential Risk Mitigation Activity



Managing reputational risk by leveraging social media



i will not waste water

i will not waste water





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