



TIC 4.0

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INVESTOR DAYS, 29-30 OCTOBER 2015

WHEN YOU NEED TO BE SURE



MAJOR TECHNOLOGY TRENDS DRASTICALLY CHANGING POSSIBILITIES

BIG DATA



Real-time collection and processing of massive data from disparate sources

HARDWARE TO SOFTWARE



Smart objects that are autonomous or digitally controlled

AUGMENTED REALITY



Virtual extension of reality via additional visual layer to enhance reality

SMART SENSORS



Translation of physical inputs into digital ones processed by computers

UBIQUITOUS CONNECTIVITY



Spread of high-speed broadband & mobile connections

SHIFT TO THE CLOUD



Remote data storage accessed via network connection

NEW DEVICE INTERACTION MODELS



Ability to interface with technology through gesture and voice commands

IMPROVED DEVICE PERFORMANCE



Miniaturization and lower power consumption combined with faster devices

VIRTUAL COMMUNITIES

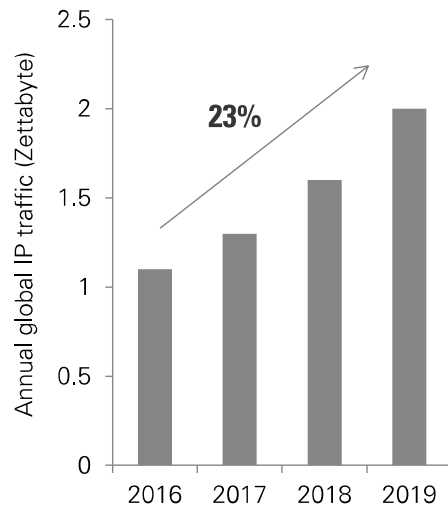


Emergences of digital platforms for exchange and collaboration

THREE MAJOR TECHNOLOGY TRENDS IMPACTING THE TIC INDUSTRY

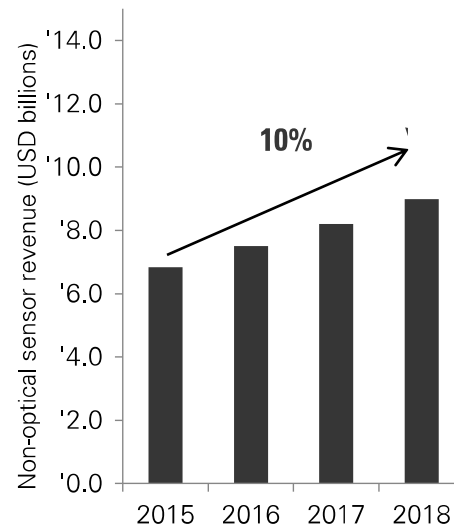
BIG DATA

90% of data generate in the last 2 years – global IP traffic expected to grow at 23%



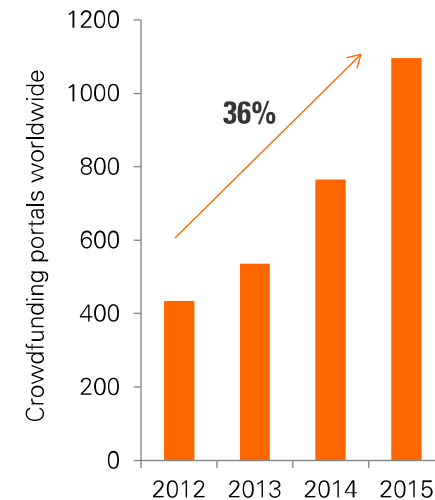
SMART SENSORS

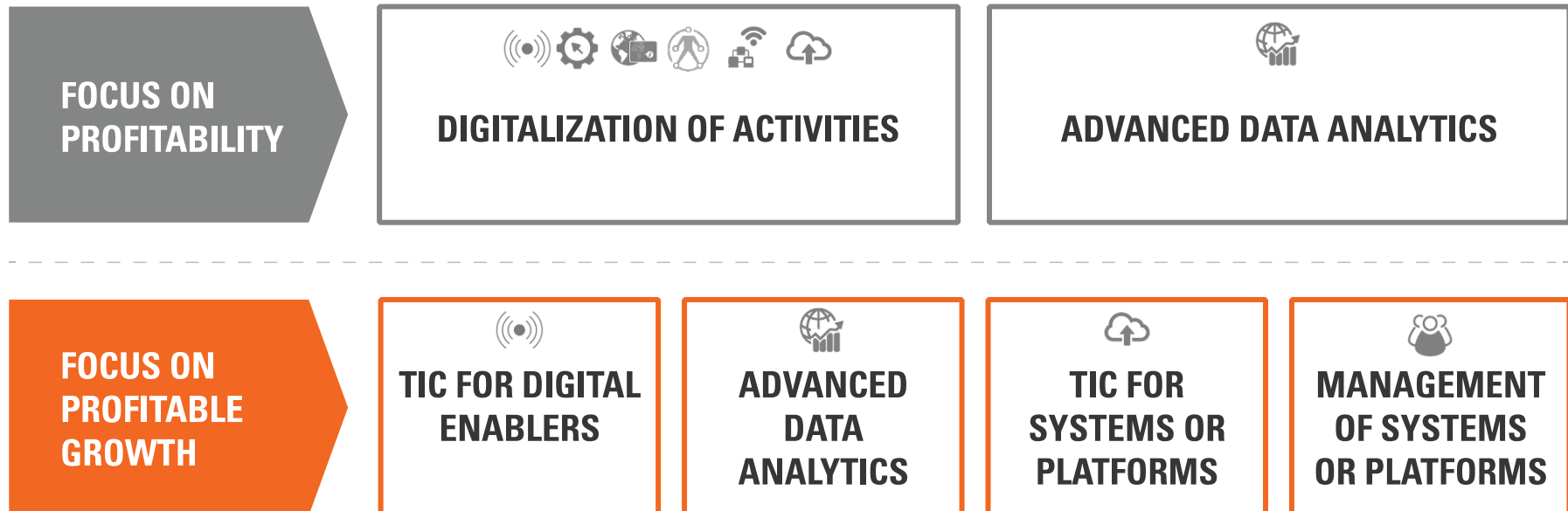
Non-optical sensor market growing with +10% p.a. until 2018



VIRTUAL COMMUNITIES

Growing virtual communities providing new opportunities





DIGITALIZATION OF ACTIVITIES

THE USE OF DRONES IN PRECISION FARMING

THE MISSION

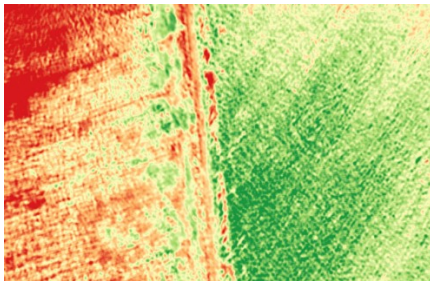


- Risk mitigation (i.e. evaluation of plant health)
- Reduce input costs or maximize yield

DATA ACQUISITION / PROCESSING: NDVI CARTOGRAPHY



High-resolution imaging



NDVI

THE OUTCOME

Early identification of nutrient problem enabled farmer to implement appropriate treatment during growing season - resulting in substantial savings





ADVANCED DATA ANALYTICS

ASSET TRACKING - SAVI TECHNOLOGY

WHEN YOU NEED TO BE SURE



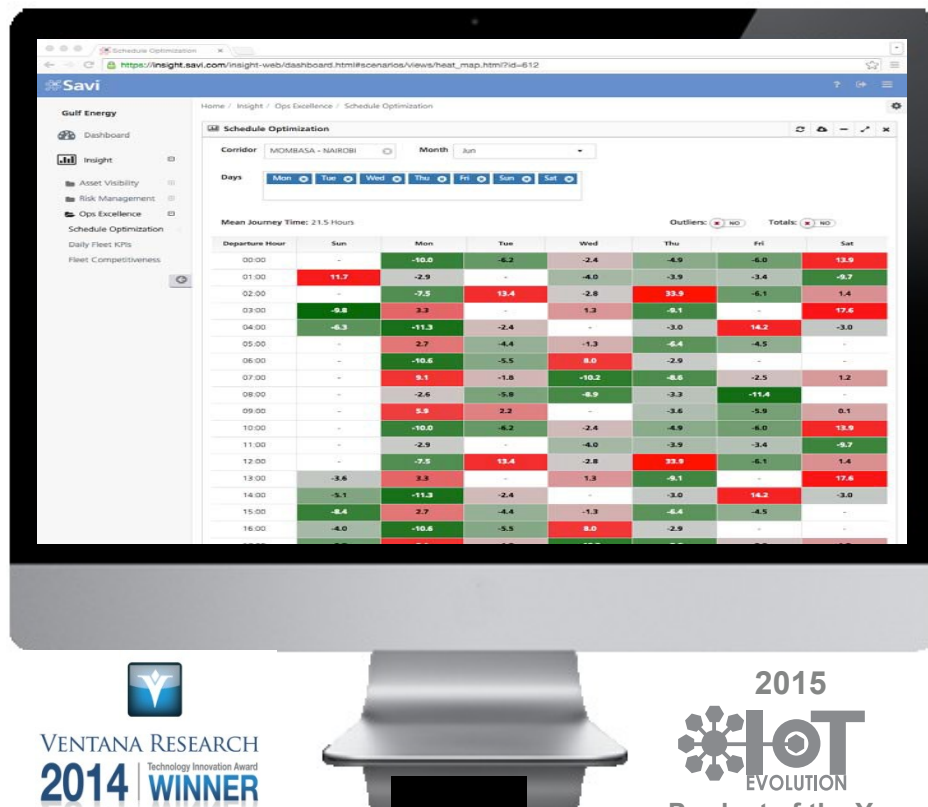
JOINT DEVELOPMENT: SGS AND SAVI TECHNOLOGY



2013 Honors Laureate Award

- In 2010, SGS and SAVI Technology developed SGS Omnis
- SGS Omnis is a fully integrated supply chain visibility solution that helps organizations in virtually any industry overcome a lack of visibility into:
 - location,
 - status,
 - security,
 - and condition of high consequence business assets
- SGS Omnis delivers real-time end-to-end visibility and security anywhere in the world (i.e. notifications, events, alerts about disruptions, change in ETA, etc.). SGS Omnis provides revenue securitisation to Customs.

ENTERING A NEW ERA IN SUPPLY CHAIN ANALYTICS

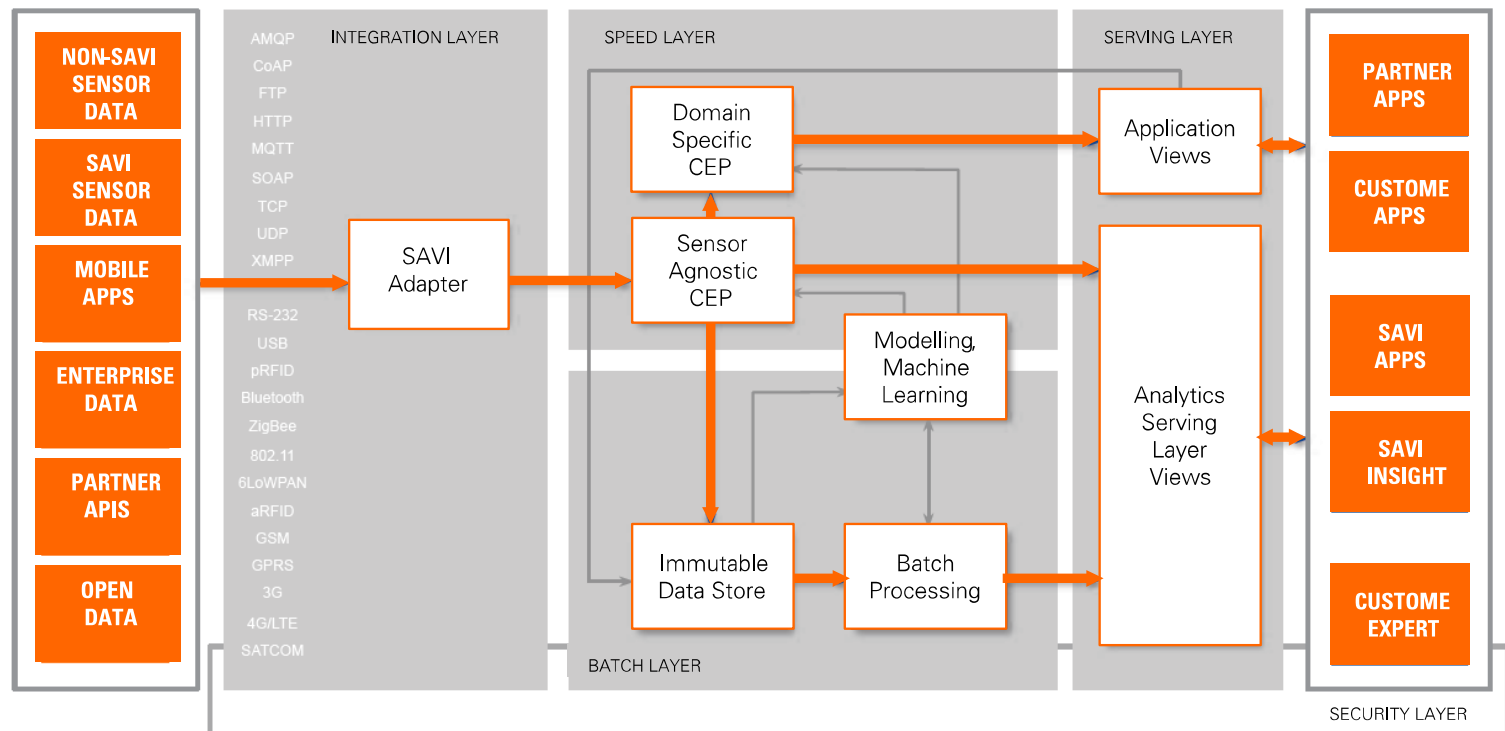


- Shortly after, SAVI Technology and SGS decided to collaborate after SAVI developed SAVI Insight
- Savi Insight is a SaaS analytics solutions that
 - captures sensor data,
 - correlates multiple variables
 - and applies rules and logic that turn data into actionable information
- Savi analytic models continually learn from actual events to generate increasingly accurate predictions and recommendations every time data is collected
 - Improve ETA accuracy
 - Reduce supply chain disruptions
 - Improve cross-docking
 - Improve labor planning
- SGS and Savi identified new opportunities where SAVI Insight can be deployed rapidly

Built from proven, open source technologies including:



Reference architecture for



SGS OMNIS TO SGS ANALYTICS



- **2010-2012**
Tracking solution for Customs and Tax Compliance
- **2012-2015**
Supply chain visibility solution to assist Trade – protecting assets and properties
- **2015 – Introducing Analytics**
 - Route optimisation
 - Real time data
 - traffic jam
 - regularly flooded areas
 - and its impact on traffic
 - Road and infrastructure
 - Road security

SGS INVESTOR
DAYS CHILE AND PERU
29-30 OCTOBER 2015

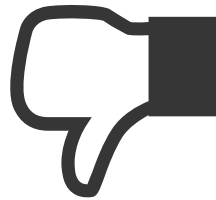
MANAGEMENT OF SYSTEMS / PLATFORMS

FOOD TRANSPARENCY SUPPLY CHAIN SOLUTION - TRACEONE

WHEN YOU NEED TO BE SURE



Sooner or later, everybody will discover critical information that might destroy:



A REPUTATION



CONSUMER TRUST



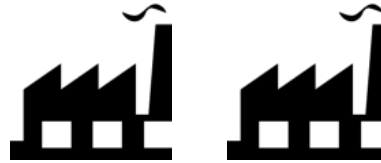
A COMPANY

**TRANSPARENCY IS A NEW VALUE THAT
IS BECOMING KEY FOR TRUST.**

LIMITED VISIBILITY WITHIN THE FOOD SUPPLY CHAIN



Brand owners typically have no visibility beyond the first level of their supply chain.



MANUFACTURERS

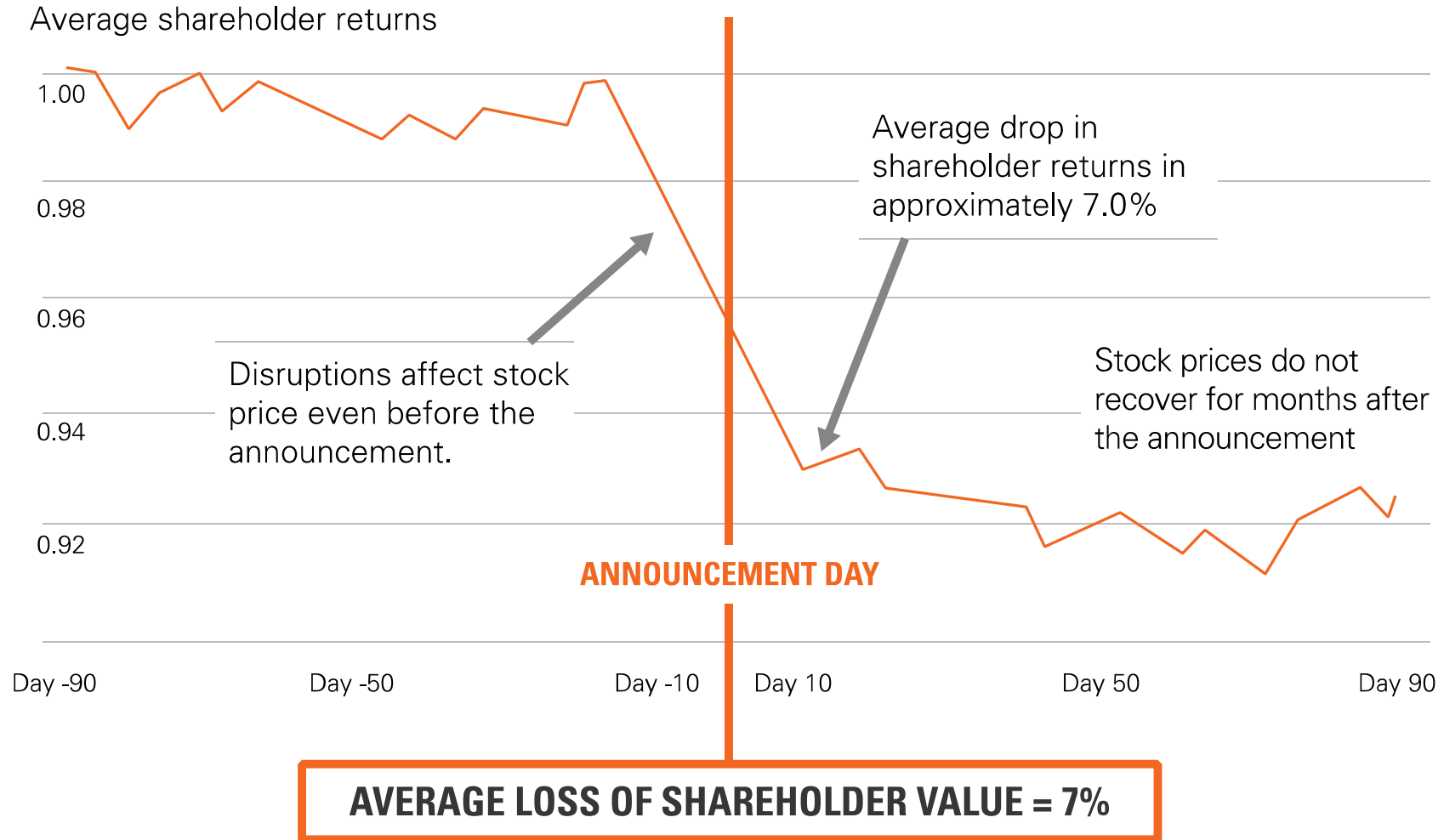
VISIBILITY LAYER

- Fraudulent ingredients
- Unknown origins
- Unsafe facilities
- Undeclared allergens
- Unknown contact info



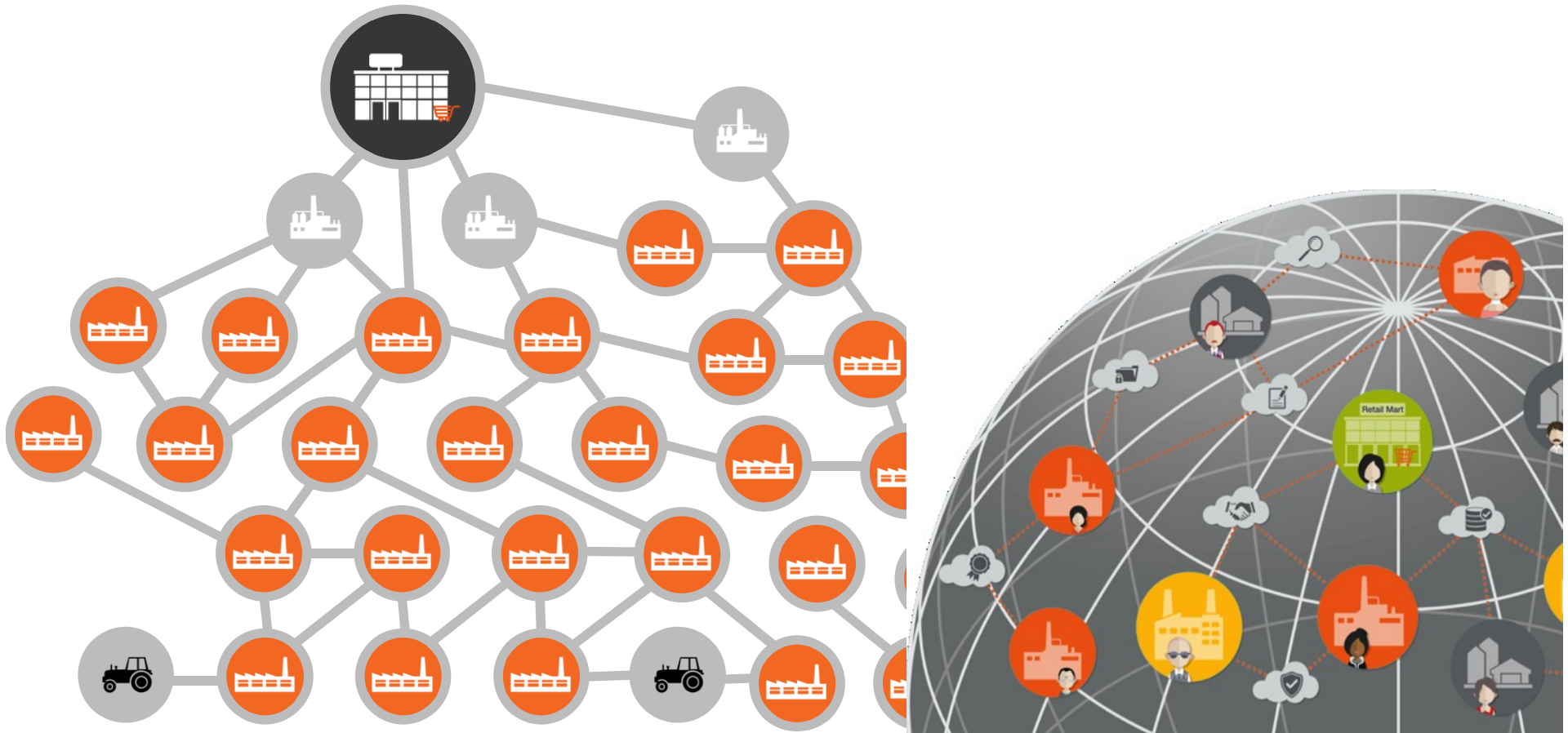
SUPPLIERS

IMPACT ON SHAREHOLDER VALUE OF THE LACK OF TRANSPARENCY



Source: Accenture analysis of 62 supply chain disruptions publicly announced during 2005-2011

THE FIRST B2B TRANSPARENCY SOCIAL NETWORK





TRACEONE
drive consumer trust

★ **BRAND**

- Recognized brand name in the industry, inspiring trust and confidence

✓ **EXPERIENCE**

- Expertise and track record in food with global revenue in excess of CHF 0.7 bn in this industry
- Risk management (food safety, social, fraud)
- Data integrity and verification
- Recommendation of risk mitigation strategies
- Strategy implementation and monitoring their effectiveness

🕒 **REACTIVITY**

- Quick response time with possibility to mobilize resources all around the world

🌐 **GLOBAL FOOTPRINT**

- Experienced food back office personnel used to communicate with suppliers in a variety of geographies
- Experienced in managing large-scale global projects across all regions

★ **BRAND**

- Private Label PLM Market leader (EUR 40 Mio revenue)

✓ **EXPERIENCE**

- Proven track record in the food industry
- 20.000+ Private Label suppliers representing 600.000+ raw materials suppliers connections
- \$300bn equivalent value spent on platform
- Founded in 2001 in France. Privately owned. Offices in Europe and USA. 250 FTE

🔗 **TECHNOLOGY**

- State-of-the-art IT platform (Graph data base)

💻 **DESIGN**

- Solution built on a user friendly platform designed with simplicity in mind



Volume refers to the “mass quantities of data that organizations are trying to harness to improve decision-making across the enterprise”

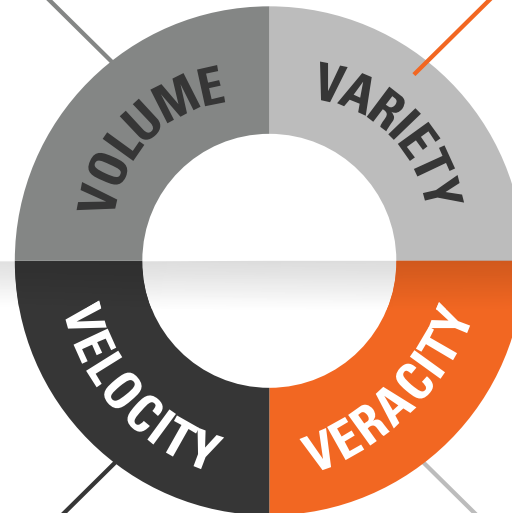
Variety refers to the complexity of multiple data types, “including structured, semi-structured and unstructured data”

Google

amazon

facebook

LinkedIn



SAP

ORACLE

IBM

SGS

Velocity refers to the speed at which data is created, processed, and analyzed

Veracity refers to the “level of reliability associated with certain types of data”

