

Opportunities in a Changing World

Innovation, Disruption, Connectivity: A new path on risk





Insurance industry: 43%

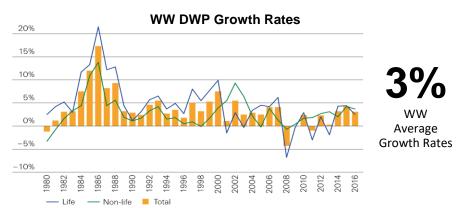
Own insurance company: 37%

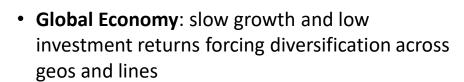
Switched insurance provider in the past two years: 31.3 %

We surveyed 22,000 consumers in 24 countries on their insurance relationships, value preferences and switching behavior

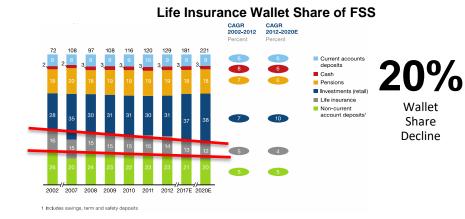


The industry is experiencing an intense set of pressures for change...





 Commoditization: loss of pricing power as regulations, aggregation, and new channels, take hold

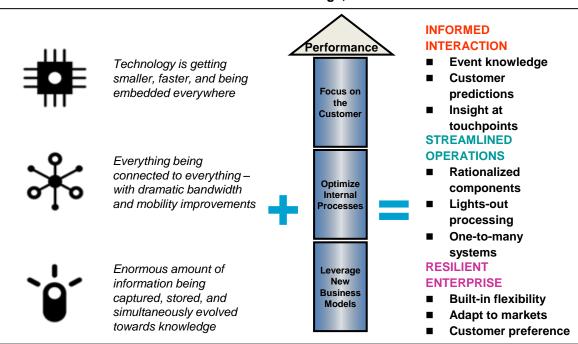


- Customization: new features, new functions, new products and structures
- **Disintermediation**: empowered customers connect to others; insurers' distribution has limited reach



...as usual. So what's different now?

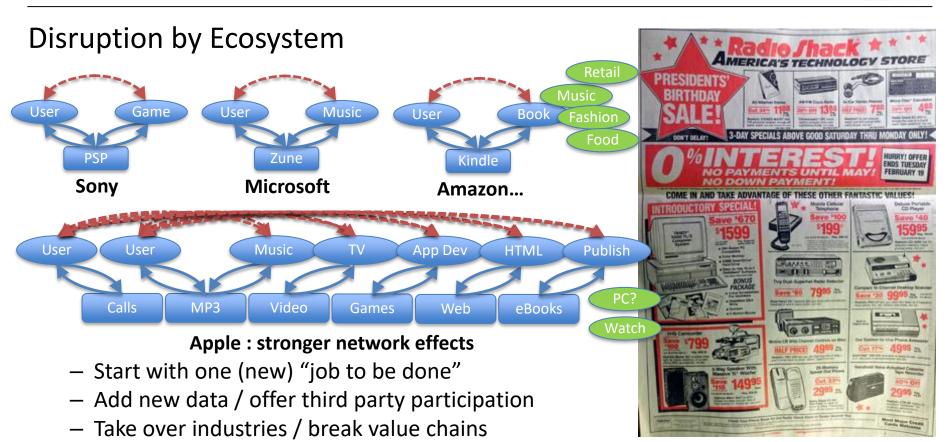
Pressures for Change, 2010





- Focus on the Customer: more prediction and customer data, reach empowered customers
- Optimize Processes: control costs, standardize
- Leverage New Models: customize products, go digital, expand horizon

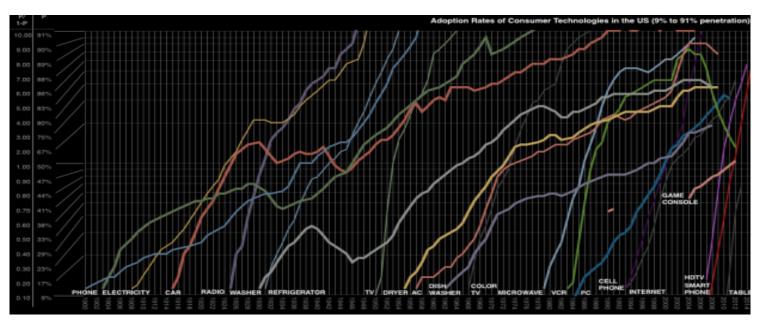








Technology Adoption Curves



- Used to take 40 years to adopt a technology, now it takes 4
- When technologies get adopted, value chains can be adapted/broken/changed
- Makes it a primary disruptive opportunity / force

7 Source: asymco.com ,2016 © 2017 IBM Corporation



Recognize

Trendline:

Instrumentation → Recognition
Sense and Understand / Risk and Customer

Battleground: Engage to Prevent Risk

Battle:

Owners of instruments: cable, telco, automotive, medical – adjacent risk models

VS.

Precision knowledge of risk
→ precision pricing + offers

Invite continuous engagement / continuous underwriting / risk avoidance

Smaller risk pools – markets, pricing, social implications



Today:

- RFID
- IoT / Telematics
- GPS

Tomorrow:

Technology Adoption:

- Drone: remote sensing, delivery
- Wireless: cheap, ubiquitous network availability for sensors

Future:

- Wearables: alwaysrecording, surveillance, wearable actuators
- 3D Print: manufacturing of one, weapon development, supply chain shortening, self-replication issues
- Genome: precision underwriting, precision medical, risk sharing issues



Technology Adoption: Assist

Trendline:

Interconnectedness → Assistance Connect Stakeholders / Insight and Value

Battleground: Point-of-Risk Systems

Battle:

Supply chain disintermediators — telcos, mobile OEMs, social, wearables manufactures e.g. Snap, aggregators

VS.

Tailored products and services at time risk is considered

Formless applications

Transaction embedding

Insuring Industry 4.0



Tomorrow:

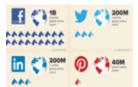
- Blockchain: Shared Ledger,
 Privacy, Trust, Smart
 Contract distributed value •
 chains
- Shared economy: access vs. ownership vs. incentives
- Electronic Payments: restructured transactions





Future:

- API Economy: industry ecosystems, composable consumer services
- Biometrics: improved security, end of passwords, rise of trusted contracts
- Automated Driving: delivery, sales, dispatch, risk patterns all upended



Today:

- Mobile
- Social



- (a) Insight

Trendline:

Intelligence --> Insight
Interpret New Data / New Risk Value



Battleground: Adaptive Advice

Battle:

Streamlined advisors — messaging apps, warranty insurers, roboadvisors

VS.

Quality advisors: Vertically integrated risk management products and services

Custom advice and products differentiated by deep risk knowledge and tailored explanations

Future:

- AR: risk management and recommendations for risk avoidance, advice, simulation, recommendation
- Cognitive Process
 Adaptation: regulatory oversight integration, product sufficiency, reallocation of humans, trends analysis, activity-based-costing



Today:

10

- Analytics
- Big Data

Tomorrow:

Technology Adoption:

- Interpretation: Voice recognition, accents, tone, languages, video, personality, emotional affect
- RPA: process automation, robotics

New Potential Models and Metrics for Insurers

Cognitive Tech

Insurance industry's "competitive moats"

- Knowledge of risk
- Longevity and trust
- Deep asset base, long view
- Regulatory knowledge



Recognize



Assist



Innovation Model Evaluation

- Adjacency to insurer market strategy
- Potential market reach greenfield
- Return on Information portfolio
- Customer interactions ½ are <1 year
- Adjacency to point of risk
- Go-to-Market speed



What capabilities do you need to build to do all this?

Scalable and Secure

Cut Costs cloud, as-aservice models, process automation, security

Flexible

Utility, platform: able to consume core insurance as-a-service; flexible platform to handle new products; consolidation across geos/lines

Customer Insight

Data
harvesting,
wide collection,
analytics,
personality,
custom
communication
and campaigns,
automatic
interactions

Deep Engagement

More frequent, richer, more informed, more local, mobile, cognitive to build precise advice, pricing, and products

Wide Engagement

Insurance as
API, Blockchain,
smart
electronic
interchange;
insurance
connected to
other
industries;
other value
chains ingested
into insurance

Scalable and Secure

IBM.

Cloud-based "IT-as-a-Service" Transformation Approach

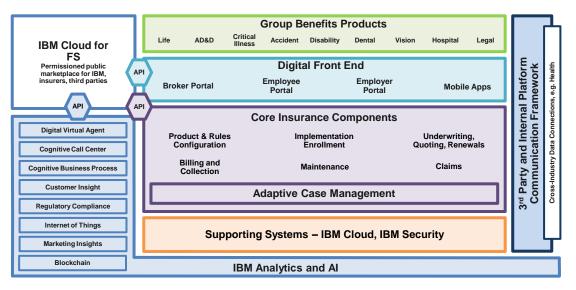
- Deliver a significant Return-on-Investment
- Provide service quantity and price variability that enables business agility, and
- Support Business Continuity and Resiliency
- Mainframe aaS: Mainframe (MIP variable pricing including hardware, IBM software, support)
- Compute aaS: Appx 5000 images to PureFlex resilient private cloud
- Storage aaS: Tiered per GB pricing (7+ Pb)
- Backup aaS: Per GB including hardware, support
- Database aaS: Pricing based on Compute and Storage as a Service
- IIS/.Net aaS: Per Instance rate for all inclusive IIS/>net instance support

- Java aaS: Per instance pricing
- Service Desk: desk services, support, chat
- Enterprise Application Services: 50+ applications
- VDI aaS: Per seat pricing, additional business continuity scope
- Office Automation aaS: Support for Lync, SharePoint and Exchange apps, OS
- Service Management aaS: Support for Remedy and other service management products





IBM Insurance Industry Platform: Insurance-as-a-Service



- First SaaS back office processing platform in market
- Changes how insurers sell, underwrite, quote, service and maintain insurance on a new and disruptive platform
- Flexible to accept range of products and custom front-end experience for end users
- Scalable with business needs
- Started with NA Group Benefits

Customer Insight



eCall4All - IBM and Bosch Complete the IoT Value Chain

IBM. (a) BOSCH

- Telematics to reduce deaths and claims via accidents
- Global service for retrofit

Insurer

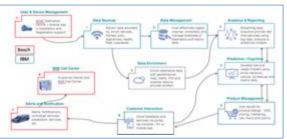
- First contact in emergencies
- Faster claims response
- Preferred suppliers to fix
- Manage body injury and property damage quickly

Policyholder – Peace of Mind

- Immediate access to emergency services
- Automated crash response
- Severe weather conditions, crisis warnings, roadside assistance

Scope of Transformation:

- Industry Integration: Easily push and pull data from leading industry solutions
- Built on Open Standards and Device neutral
- IoT specific security: Security micro-services built specifically for IoT -based solutions



Improving the claims process:

Accident Reporting

 Guarantees that losses are reported the second they happen, not just within the "accident reporting window."

Liability Analysis

 Gives claims managers the opportunity to obtain incident information while it's still fresh in the driver's minds

Reduce Fraud

Auto insurance is the greatest component of overall insurance fraud. The cost of fraudulent claims is approximately \$80 billion annually.

Get the Full Story

 It's easier to preserve evidence and potential testimony while all involved parties are still on the scene.

Service Providers

²Studies show that auto insurance providers can save as much as 30% on claims by controlling the service provider network.



Device plugs into vehicle's 12v outlet



Device connects to smartphone via Bluetooth

Driver downloads eCall app from Google Play Store Apple App Store When device detects a collision, crash data and user information is sent to the smartphone app via Bluetooth



Emergency services or roadside assistance can be dispatched based on severity

Deep Engagement



Amica Mutual Insurance Claims Transformation / Mobile Enablement









Insurer

Enhance Customer Experience

- Decrease Cycle Time
- Personalize Interactions
- Increase Transparency, Trust

Increase Adjuster Productivity

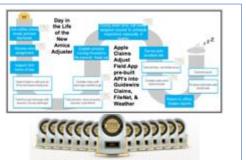
- Higher Claims Capacity
- Lower Adjustment Costs, Time at Desk, Training Time
- Consolidation: Six internal systems into single mobile tool

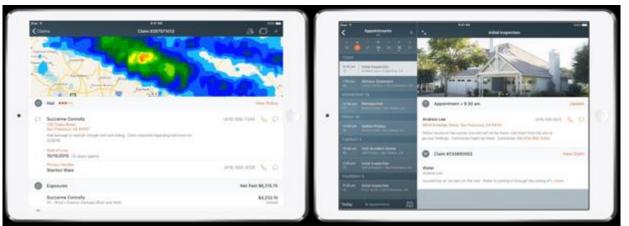
Policyholder

- Precise scheduling, STP without missing documentation
- Decreased initial payment time
- Increased settlement accuracy

Scope of Transformation:

- Maximizes field-based adjuster time
- View assigned claims (map or calendar)
- Take notes, record audio, capture photos
- Access customer policy information
- View FNOL, claim history, and documents
- Visualize historical data from Weather.com
- Fully customizable for individual clients





Wide Engagement



AIG Multinational Blockchain Initiative with Standard Chartered Bank



IRM



Objective:

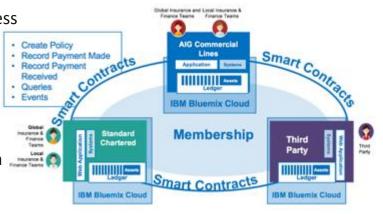
- •AIG was looking to issue & record a multinational umbrella policy on Blockchain to improve transparency, efficiency, and servicing
- AIG and client Standard Chartered
 Bank created a Blockchain business network for Directors & Officers (D&O)

Benefits:

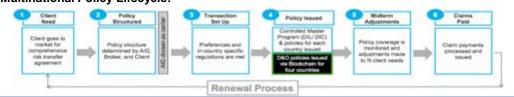
 Removes friction and administrative burden, and increases transparency

Scope of Transformation:

- Minimum Viable Business
 Network to provide full
 transparency around
 "Master" & "Local"
 Policies, associated
 premiums & payments,
 and Policy Issuance
- The project converted a controlled D&O master policy (UK), and three local underliers (Kenya, US, Singapore)



Multinational Policy Lifecycle:



Why Blockchain:

- Efficiencies during policy issuance across geo and organizational borders
- Blockchain improved contract certainty, compliance, and country alignment



Industry Platforms offer insurers efficiency and differentiation



Advantages



Key



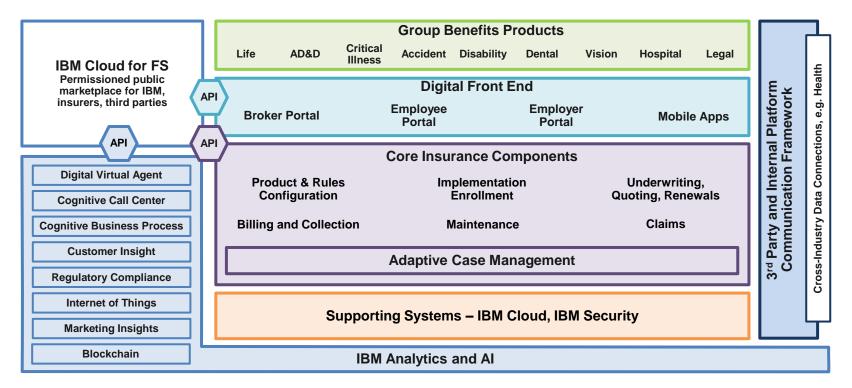


Unique experiences via composable business services





The IBM Insurance Platform delivers transformative digital experiences atop efficient core operations – shown here for the NA Group Benefits market

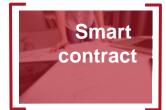




Summary and Benefits of Blockchain for Business

Append-only distributed system of record shared across business network





Business terms
embedded in
transaction database &
executed with
transactions

Ensuring appropriate visibility; transactions are secure, authenticated & verifiable





All parties agree to network verified transaction

Reduces Time



Transaction time from days to near instantaneous

Removes Cost



Overheads and cost intermediaries

Reduces Risk

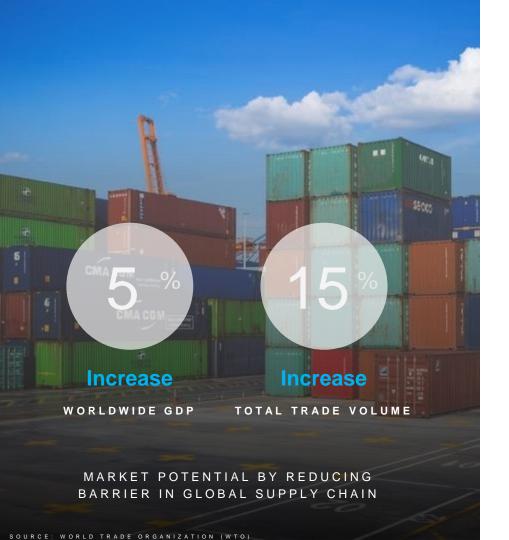


Tampering, fraud & cyber crime

Enables New Business Models



loT Integration into supply chain





PROBLEM | LIMITED VISIBILITY IN THE PAPER TRAIL

Improving in-transit inventory management

Real-time tracking shipment of goods across multiple global supply chain checkpoints

Digitizing the end-to-end supply chain process to increase transparency and security among all trading partners, reduce fraud and errors, decrease product time spent in the transit, and lower waste and cost.

Case Study: Cross Border Supply Chain

What?

 Ninety percent of goods in global trade are carried by the ocean shipping industry each year. Costs associated with trade documentation processing and administratio are estimated to be up to one-fifth the actual physical transportation costs.



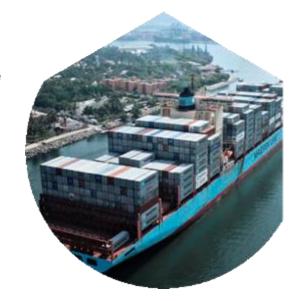


How?

A new Blockchain solution from IBM and Maersk will help manage and track the paper trail of tens of millions of shipping containers across the world by digitizing the supply chain process.

Benefits

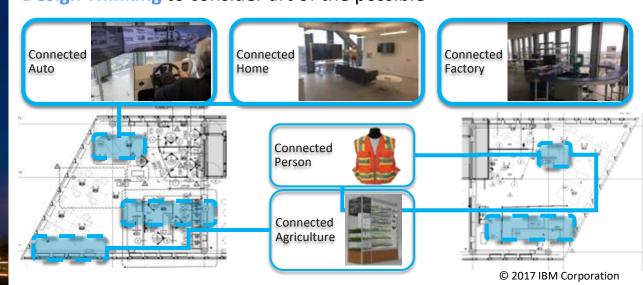
- Enhance transparency and the highly secure sharing of information among trading partners and customs officials.
- Reduce fraud and errors, reduce the time products spend in the transit and shipping process, improve inventory management and ultimately reduce waste.
- Potential to save the industry billions of dollars.





Ways to Get Started

Connect Platforms and Blockchain with fast prototyping
Garages can rally resources devoted to relevant technologies
Prototype Labs to empower business users to design quickly
Design Thinking to consider art of the possible





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