

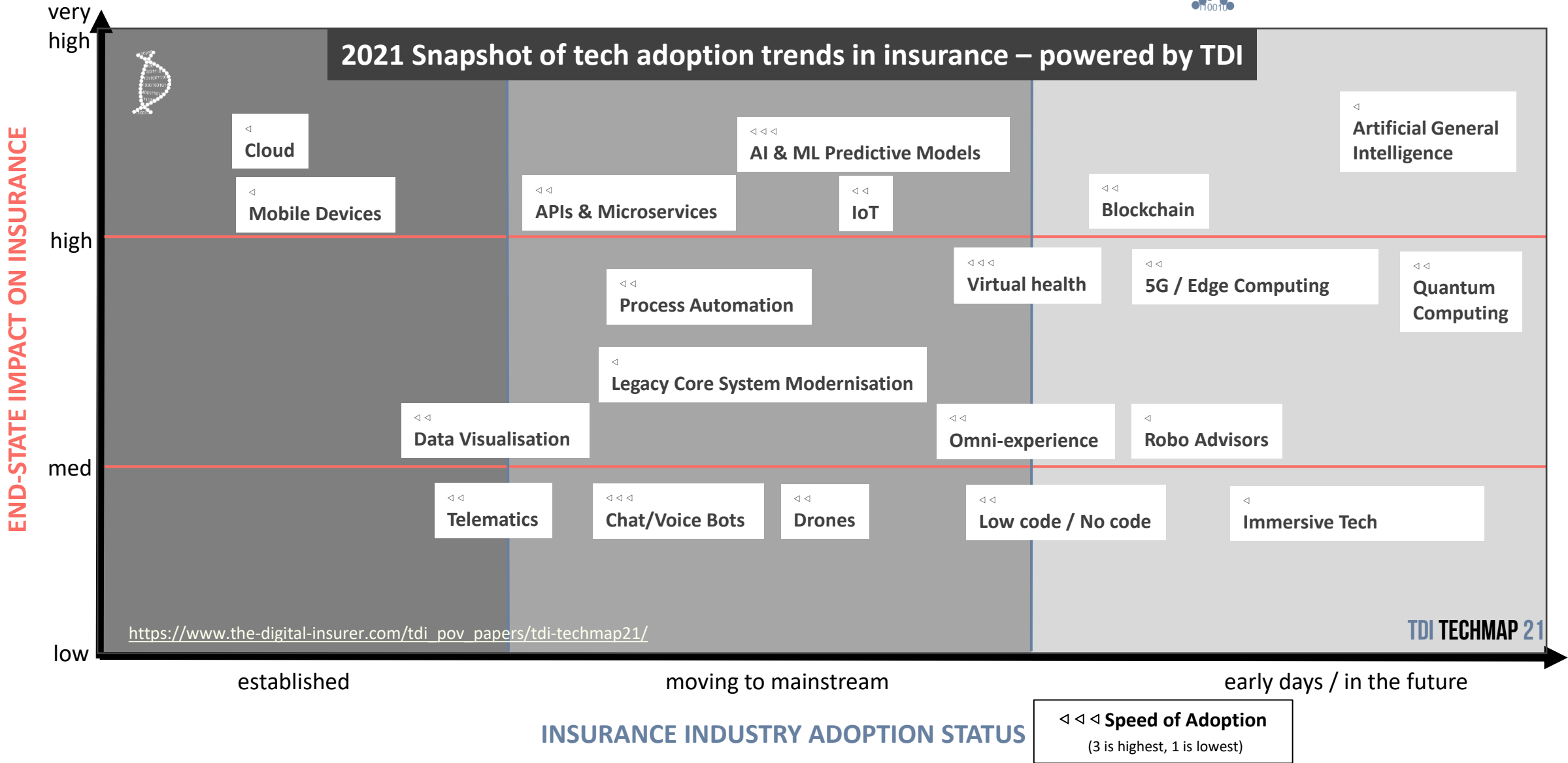
TDI TECHMAP21

It's dynamic – click on the tech that interests you.
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TDI ACADEMY
LEARNING FOR THE DIGITAL AGE

2021 Snapshot of tech adoption trends in insurance – powered by TDI



https://www.the-digital-insurer.com/tdi_pov_papers/tdi-techmap21/

TDI TECHMAP 21

◀◀◀ Speed of Adoption
(3 is highest, 1 is lowest)

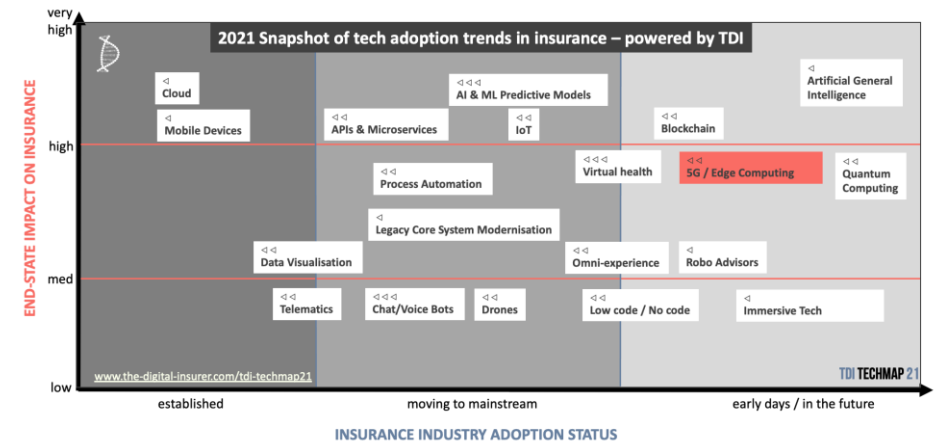
5G / Edge Computing outlook in 2021

- Rollout start in 2021 in earnest
- Asia leading on rollout (China & South Korea)
- A step change in speed that will act as an amplified for many other Technologies

End State impact on insurance
Medium to high

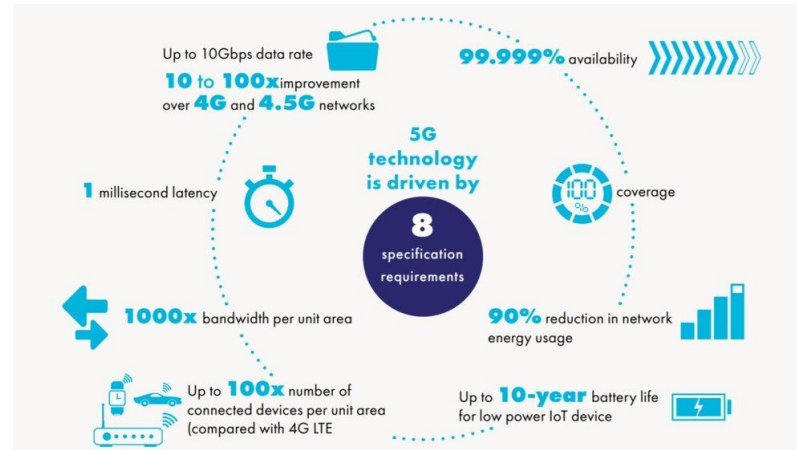
Adoption Status & Speed
Early days <<

Click map below to return to the larger map



Strategic value to insurance

1. 5G enables IoT business models and real-time pricing
2. Smart homes, Connected cars, virtual health are enabled by 5G and edge computing
3. Enabler of omni-communication at higher fidelity



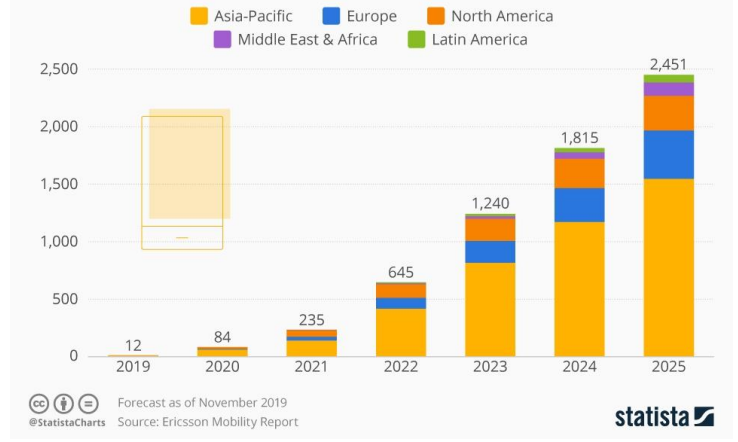
Source: Amt-lab – [5G Benefits & considerations](#)

Recommended reading

- CB Insights: [What is edge computing?](#)
- Waterstreet: [Impact of 5G on the insurance industry](#)
- Insurance Times UK: [5G embracing the potential, appreciating the risks](#)

Global 5G Adoption to Take Off in 2021

Forecast of 5G smartphone subscriptions by region (in millions)



Source: Statista - [Global 5G Adoption to Take Off in 2021](#)

AI & Predictive models outlook in 2021

- Emphasis on execution . Companies with core tools and good data management will be able to move ahead
- Increasing focus on AI for sale, retention, cross-sell and up-sell
- Value of genuine 360 degree view of the customer becoming clearer
- Increasing need for real-time analysis for many areas including pricing, Underwriting and claims
- Can insurers make data modelling more inclusive?

Strategic value to insurance

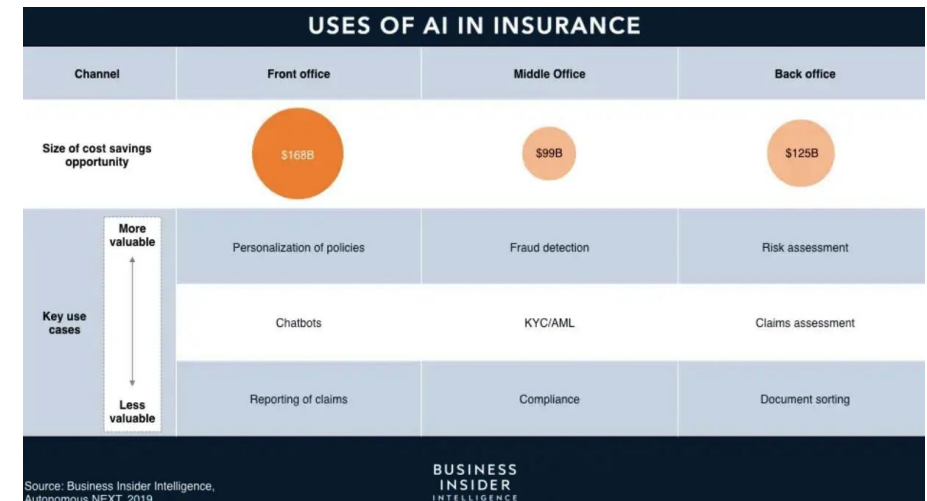
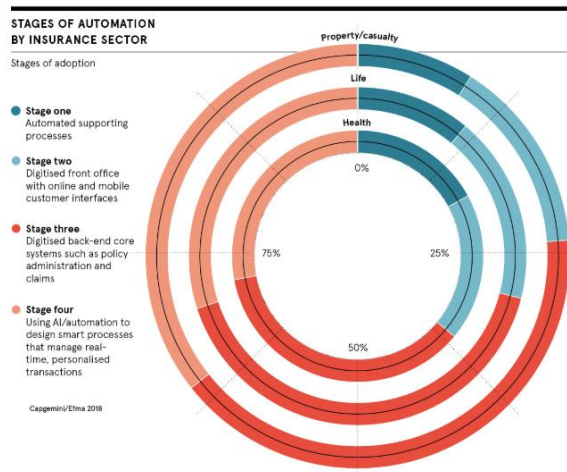
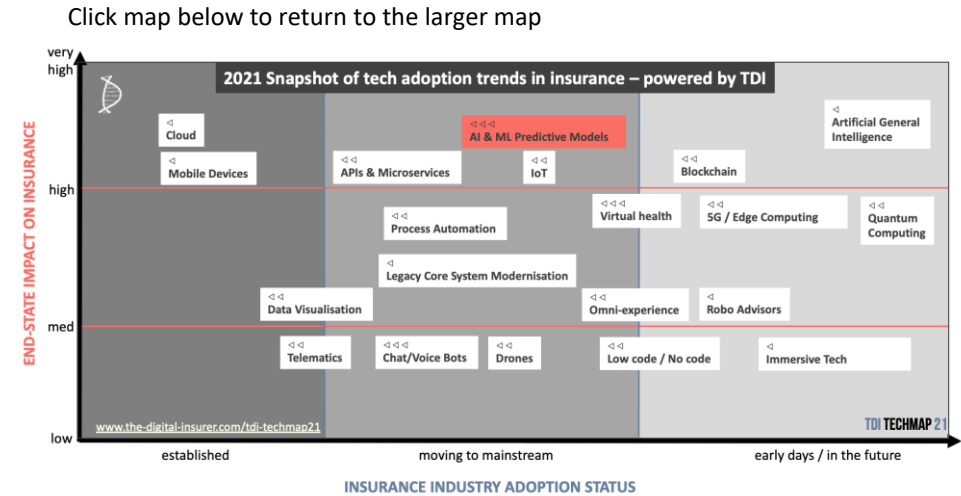
1. Tools for operational improvement across the value chain
2. Operational cost reduction via automation
3. Decision support tools for insurance professionals
4. Insights to improve the business

Recommended reading

- Checkout the TDI Academy lessons: [AI, Machine Learning & RPA](#) or [Predictive modelling](#)
- Duck Creek: [11 Ways Predictive Analytics in Insurance Will Shape the Industry in 2021](#)
- Willis Towers Watson: [The financial rationale for predictive analytics](#)

End State impact on insurance
High

Adoption Status & Speed
Moving to mainstream <<<<



Source: business insider intelligence - [AI in insurance annual report](#)



AGI outlook in 2021

- No consensus on whether AGI will be achievable
- But no doubt that AI is advancing at pace – and already proving to be highly disruptive
- Deep Mind is currently attracting a lot of attention but use cases remain specialised and commercial basis is not established
- AGI should be on insurers risk maps as one to watch in the years ahead

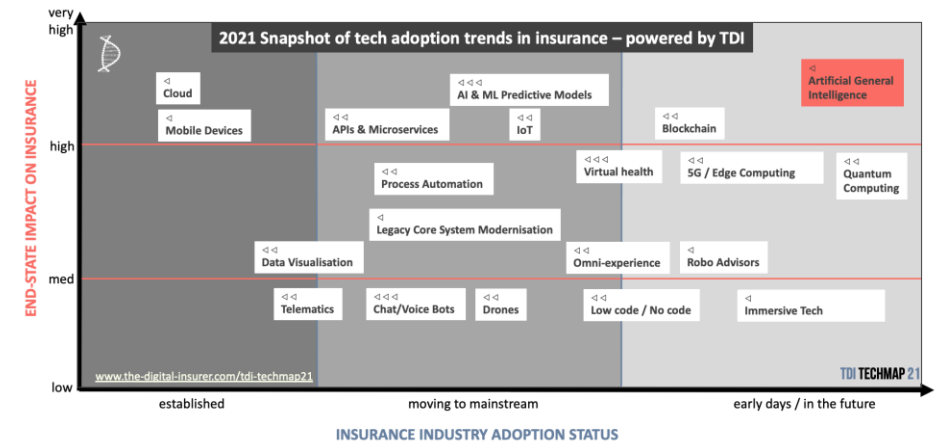
End State impact on insurance

High to very high

Adoption Status & Speed

Early days

Click map below to return to the larger map



Strategic value to insurance

1. Will be a game changer – but as this point hard to define both timing and impact

Recommended reading

- Nature.com: [Why general artificial intelligence will not be realized](#)
- Business Insider: [Elon Musk says he's terrified of AI taking over the world and most scared of Google's DeepMind AI project](#)
- Nature: ['It will change everything': DeepMind's AI makes gigantic leap in solving protein structures](#)



Source: Data Science Central - [Google Deepmind: The Importance of Artificial Intelligence](#)

APIs & Microservices outlook in 2021

- Continued march to mass adoption in the insurance industry
- Microservices move to the cloud and increasing focus on “observability” tools
- By 2022 90% of apps developed using microservices architecture
- Advantages of open APIs become clearer

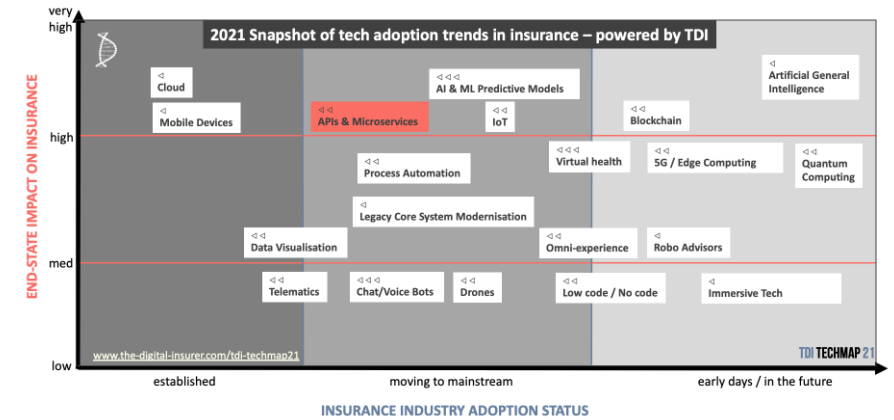
End State impact on insurance

High

Adoption Status & Speed

Moving to mainstream ◀ ◀

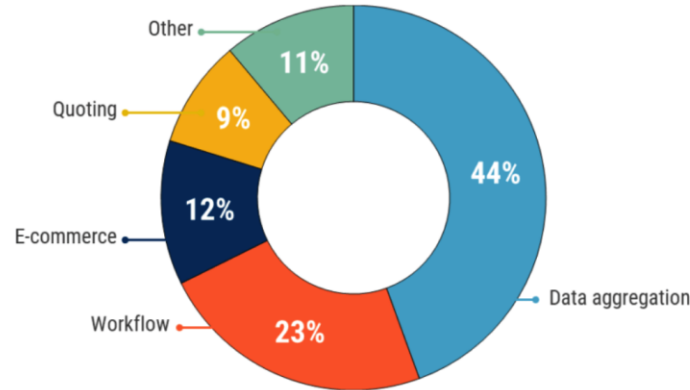
Click map below to return to the larger map



Strategic value to insurance

1. ease of development / speed to market
2. Participation in, and access to, ecosystems
3. Access to more data
4. Building new service offerings with partners
5. Better customer experience
6. Increased resilience by separation of business functionality

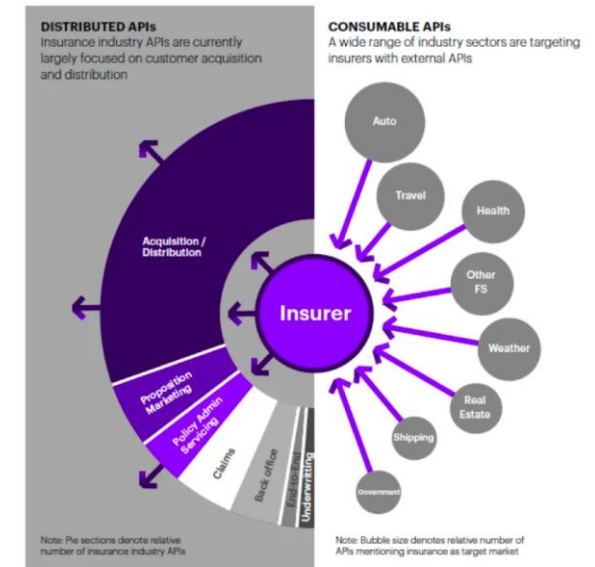
Distribution of insurance APIs



Source: CB Insights - [APIs driving next generation insurance](#)

Recommended reading

- Checkout the TDI Academy lesson: [APIs & Microservices](#)
- TDI webinar: [Infrastructure for global insurers](#)
- The Newstack: [microservices, APIs and innovation – the power of APIs](#)
- IBM: [Evolution of the API Economy](#)
- Robosque: [The journey to an open API standard](#)



Source: Open Insurance- [Insurance platform ecosystems are an open playing field](#)

Blockchain outlook in 2021

- Increasing exploration through localised R&D pilots
- Increasing public awareness of successful insurance-specific use cases, particularly in non-traditional markets (eg under-served / micro) and consortium-led industry-wide initiatives (eg reinsurance)
- Rise of DeFi (Decentralised Finance) enthusiasm amongst crypto community, in particular enabled through Ethereum, likely to accelerate sector interest and exploration

Strategic value to insurance

1. Raise consumer trust in industry e.g. automated claims payments
2. Reduce frictional costs and help remove unnecessary tasks e.g. manual verifications that policy conditions are met
3. Increase customer satisfaction through more efficiency servicing e.g. claims settlement via smart contracts
4. Generate new sources of revenue e.g. micro
5. Enabler of New Digital Business Models e.g. P2P, as well as multiple Value Chain Innovations e.g. Claims settlement

Recommended reading

- Checkout the TDI Academy lesson: [Blockchain](#)
- Amazon: [Life after Google – Blockchain economy](#)
- Wikipedia: [Decentralised Finance](#)

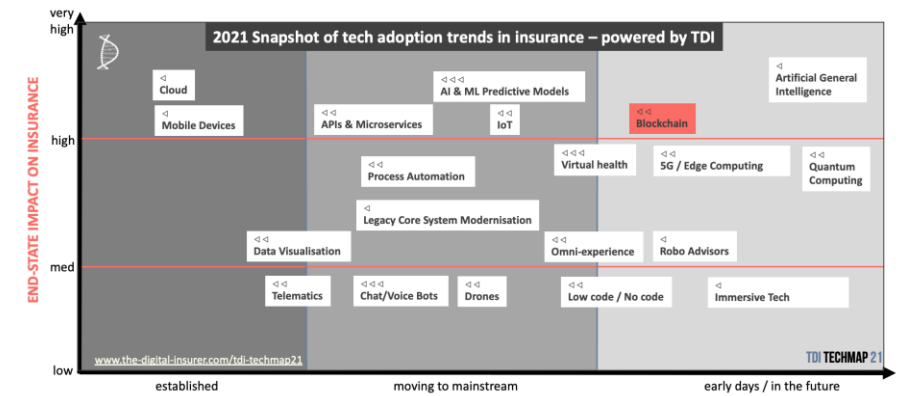
End State impact on insurance

High to very high

Adoption Status & Speed

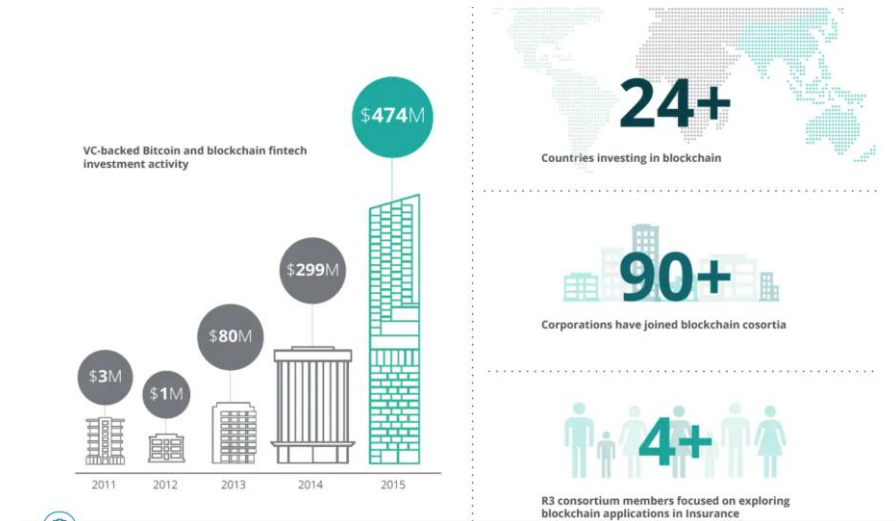
Early days <<<

Click map below to return to the larger map



Source: The Economist – [Trust Machine](#)

INSURANCE INDUSTRY ADOPTION STATUS



Source: Deloitte – [Blockchain in insurance](#)

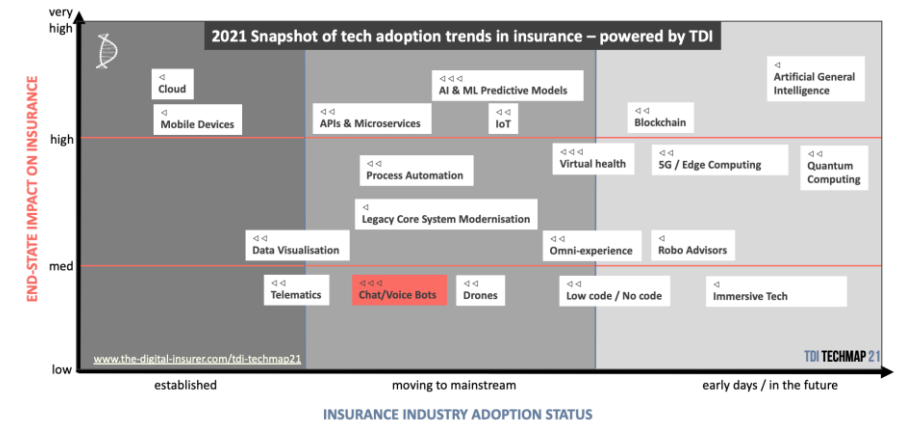
Chat/Voice bots outlook in 2021

- Increasing adoption and availability as insurers catch up with consumer demands
- Trends to increased personalisation (increased access to customer records go answer queries) and improvements in handover / escalation to customer services executives / sales reps
- Scope for improvement

End State impact on insurance
Medium

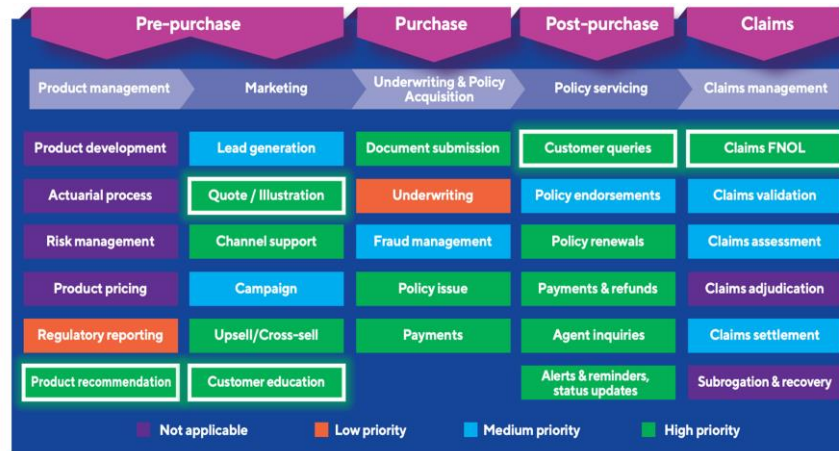
Adoption Status & Speed
Moving to mainstream <<<<

Click map below to return to the larger map



Strategic value to insurance

1. Better customer service at lower cost
2. A new interface for customer engagement
3. Creates data for business insight (AI assisted)
4. Gateway for voice enabled services



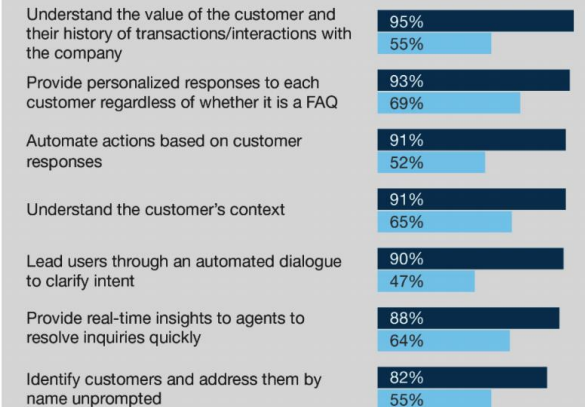
Recommended reading

- Checkout the TDI Academy lesson: [Chat & Voice](#)
- Insurancebusinessmag: [How chatbots are revolutionizing the insurance customer's journey](#)
- Artificial solutions: [AI Chatbots in Insurance: Benefits, Use Cases and Key Features](#)

Source: Cognizent - [The Future of Chatbots in Insurance](#)

Many Firms' Chatbot Solutions Lack The Most Important Functionalities

Very important or important to customer service success (dark blue) | Current chatbot ability (light blue)



Note: Not all responses shown
Base: 100 enterprise customer service decision makers in US, CA, and the UK
Source: A commissioned study conducted by Forrester Consulting on behalf of Ada, April 2019

Source: Forrester / Ada- [Personalisation Conversational chatbot](#)

Cloud outlook in 2021

- Established cloud services market with competitive pricing
- Continued innovation around “as-a-service” add-ons
- Increased focus on security will reemphasis value of cloud providers superior security offering

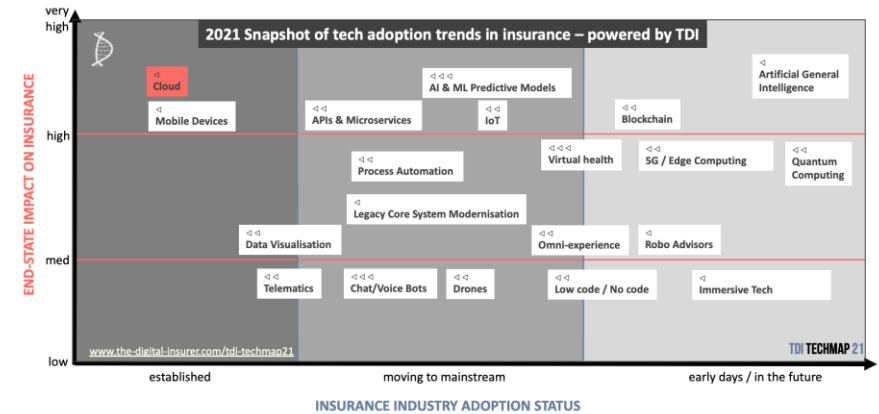
End State impact on insurance

High to very high

Adoption Status & Speed

Established ◀

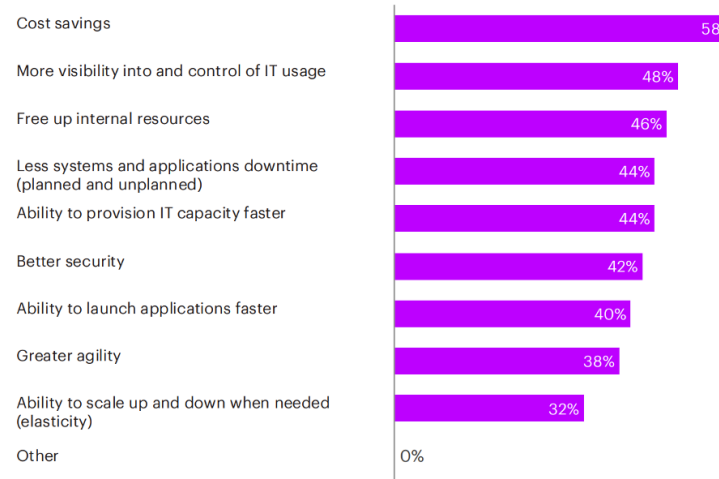
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Strategic value to insurance

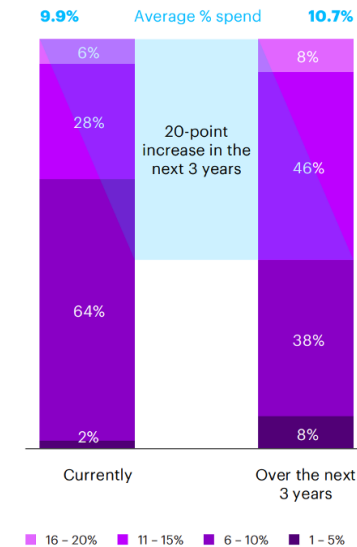
1. Crush cost
2. Become more agile & scalable
3. Access core tech such as AI and blockchain on “as a service” terms
4. Manage increasing quantity of data
5. Participate in ecosystems and on-demand insurance
6. Better security

Figure 1: Benefits of Cloud



Source: Accenture Cloud Readiness Survey in Insurance, June 2019

Figure 2: Planned Cloud Expenditures



Source: Accenture Cloud Readiness Survey in Insurance, June 2019

Recommended reading

- Checkout the TDI Academy lesson: [cloud crushes costs](#)
- Accenture: [Cloud Readiness Insurance Survey](#)
- Google: [Principles and best practices for data governance in the cloud](#)

Data Visualisation outlook in 2021

- Going Social for customers with visualisation of personal data
- Multi-device visualisation – increasingly mobile
- Increased enterprise deployment and training of business users
- Rapid increase in real-time dashboards with embedded AI for decision support

Strategic value to insurance

1. Bring data to business users and customers in a consumable format
2. Generate more actionable insights from data
3. Bring more people into the world of data driven insights
4. Additional Benefits as a visual driver of a digital culture

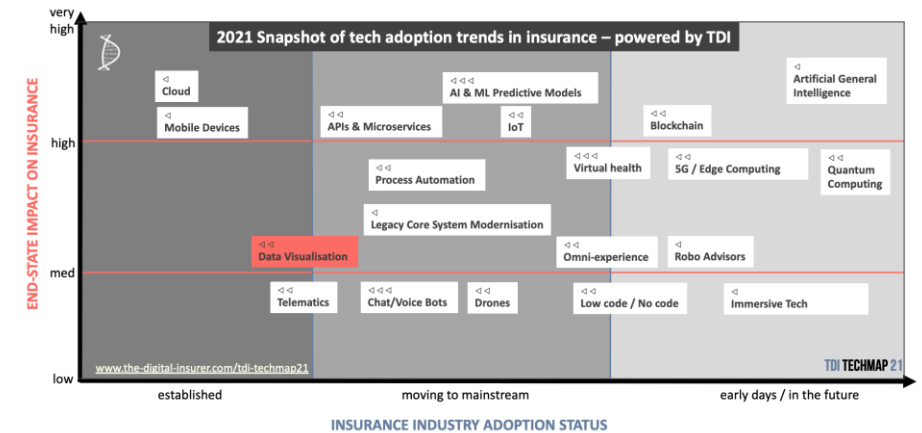
Recommended reading

- Medium / Quosphere: [7 data visualisation trends](#)
- Tableau: [10 best practices for building dashboards](#)

End State impact on insurance
Medium

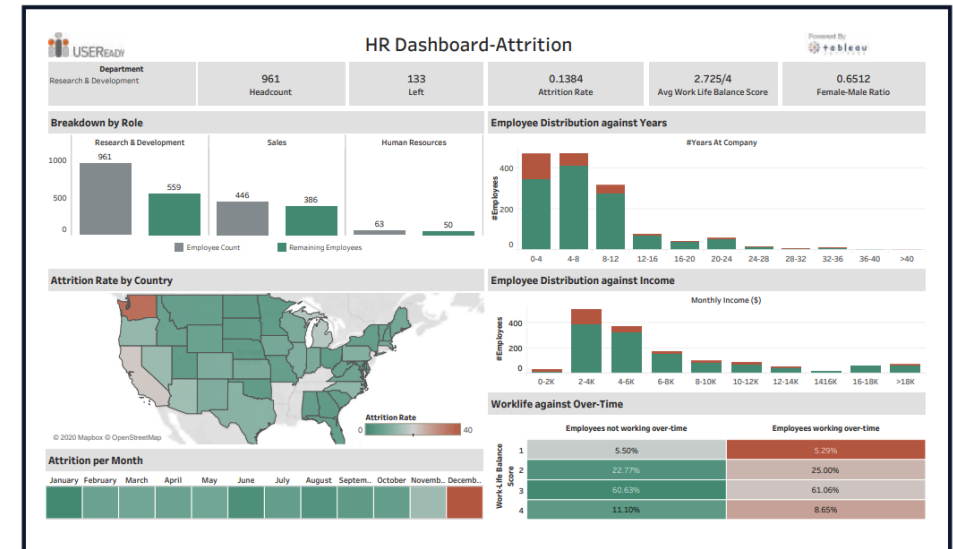
Adoption Status & Speed
**Established/
 Moving to mainstream**

Click map below to return to the larger map



6 Best Practices in Data Visualization

1. Know Your Goal
2. Use Correct Data
3. Keep Visualization and Dashboard Simple
4. Keep Users Engaged
5. Empower your audience
6. Design Iteratively



Source: Tableau – [Top 5 insurance dashboards](#)

Source: Predictive analytics today – [Top best practices in data visualisation](#)

Drones outlook in 2021

- Valuable but relatively limited uses in insurance
- Increasing maturity in drone technology drives increasing adoption. By insurers
- PwC estimate approx. US\$7 billion market for drone technology in 2020 (2017 estimate)

End State impact on insurance

Low to medium

Adoption Status & Speed

Moving to mainstream ◀

Strategic value to insurance

1. Management of risks - New sources of data for underwriting and claims
2. Natural disaster management
3. Adjudication of claims – inspection and fraud management

A 20-MINUTE DRONE FLIGHT can take 350 images of a property and help find moisture trapped in roofs, produce 3D models and elevation maps, calculate flood risk, and more...

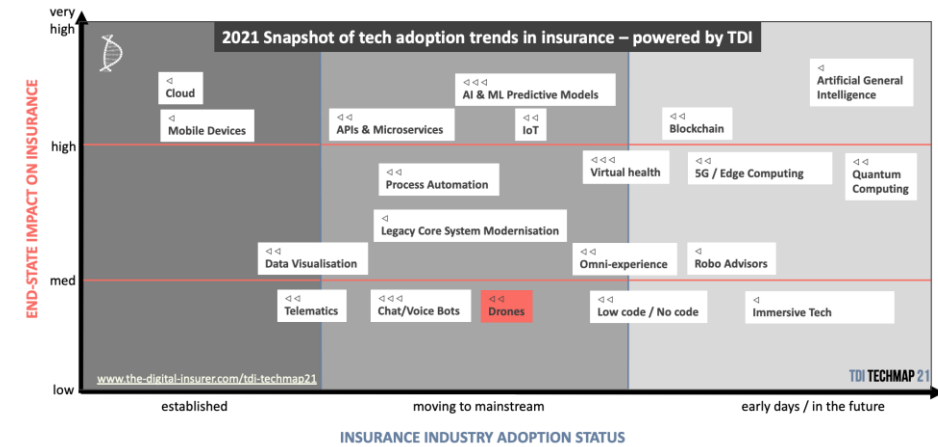


Source: Intellias - [How to Use Drones for Insurance Inspections](#)

Recommended reading

- Intellectsoft: [Drones in Insurance: How the Technology Changeu the Industry and What to Expect from it Soon](#)
- Flyability: [the commercial use of drones](#)

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Potential applications span pre- and post-loss insurance value chain

Top takeaways



The insurance industry has been one of the earliest adopters of commercial drones.



Over the past few years, drone deployment has been rapidly expanding and evolving, with applications across the insurance value chain.



Commercial drone use has the potential to help the insurance industry save billions of dollars annually²² by improving core transaction processing, risk management, resource efficiency, fraud reduction, and employee safety.



To take advantage of the empowering data and cost-saving opportunities that drones provide, companies must tackle a number of regulatory, technology, and business risks and challenges.

Source: Deloitte- [Insurance industry drone use is flying higher and farther](#)

Immersive Tech outlook in 2021

- Use cases in insurance continue to emerge slowly
- 5G will enhance VR experience and accelerate adoption
- Small enterprise penetration Approx. 100-200,000 headset purchases by enterprises (not just insurance)

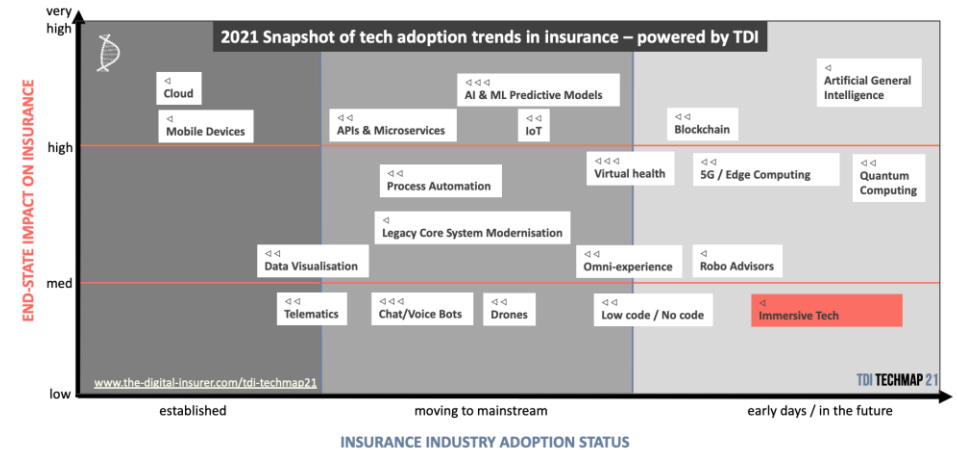
End State impact on insurance

Medium

Adoption Status & Speed

Early days ◁

Click map below to return to the larger map

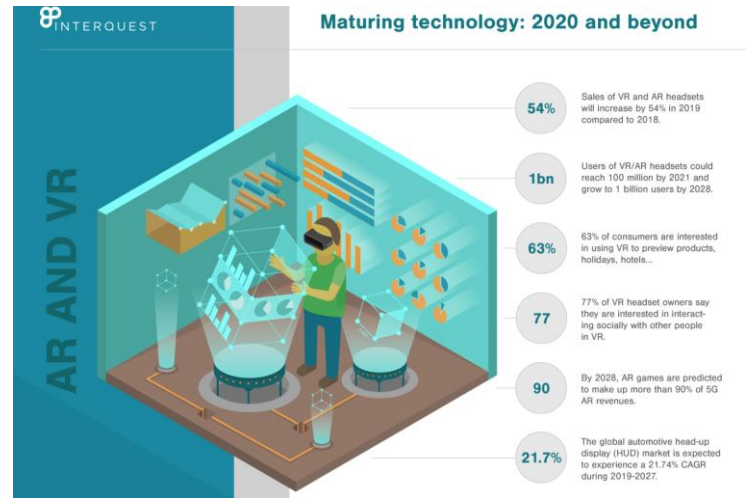


Strategic value to insurance

1. VR as a learning and simulation tool
2. VR for enhanced customer experience
3. AR for enhancing value chain innovations

Recommended reading

- Checkout the TDI Academy lesson: [Immersive Technology](#)
- Forbes: [The Revolutionary Impact Of Immersive Technology On Education](#)
- Insurance Journal: [Strap on the Goggles. Employee Training Is Entering Virtual Reality.](#)



Source: Interguest Group - [Augmented reality \(AR\) and virtual reality \(VR\) predictions for 2020 and beyond](#)



Source: You Tube./Video Gorillas - [Global 5G Adoption to Take Off in 2021](#)

A outlook in 2021

- Long-term trends continue to drive adoption of IoT including increasing consumer adoption and proven capability as risk management tools
- Usage base insurance for auto forecast to grow from US\$29 billion in 2019 to close to US\$150 billion by 2027 (allied market research)
- Adult wearable penetration rate (use once a month) forecast to reach 25% by end of 2022 (up from 18.1% in 2017) – it is not exponential yet
- Smart Homes – steady increases in penetration expected – pending standardisation to increase adoption

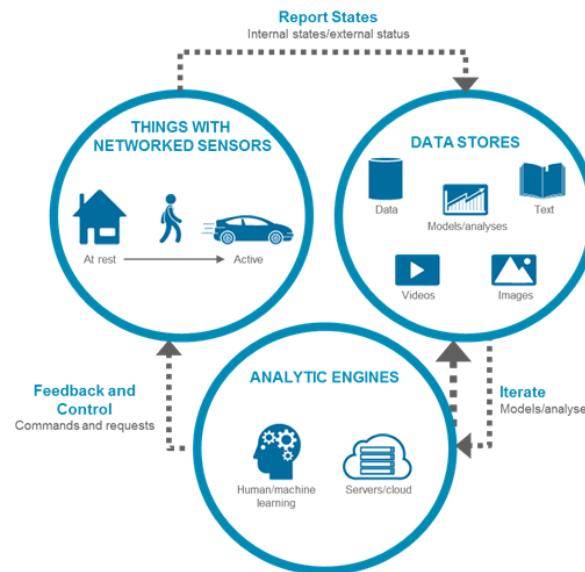
End State impact on insurance

Low to medium

Adoption Status & Speed

Early days/
Moving to mainstream

Interaction Between the Three Components of the Internet of Things



Source: The Security Ledger - [IoT And Big Data To Create Insurance Industry Winners, Losers](#)

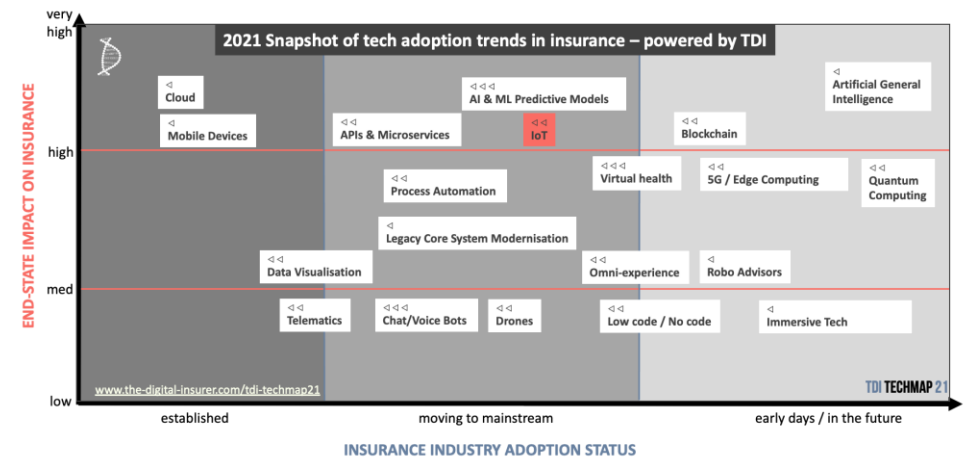
Strategic value to insurance

1. Excellent Risk reduction tools
2. Change the nature of the product by changing the customer experience – engaging and retaining customers
3. Enabling real-time and on demand insurance – including pricing data
4. Universal - applications across nearly all business lines
5. A key enabler for ecosystem and platform models

Recommended reading

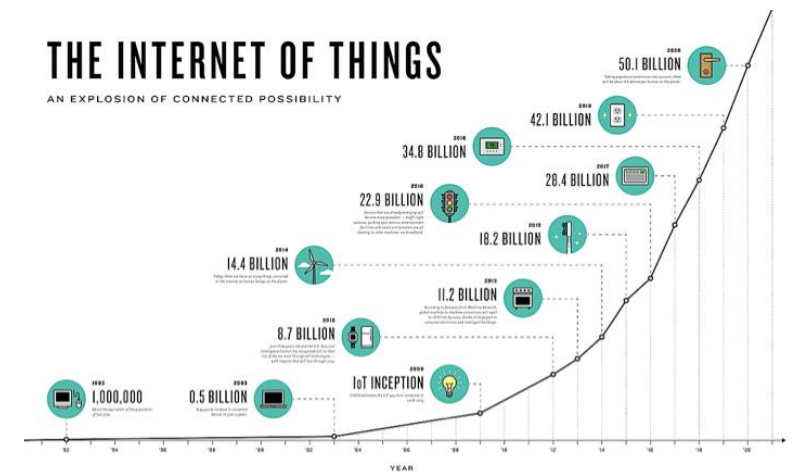
- Checkout the TDI Academy lesson: [IoT](#)
- IBM: [The Internet of Things: New and better data for the insurance industry](#)
- Gartner / Octo telematics : [Digital transformation through connected insurance](#)
- Insurance Nexus: [Connected Insurance Report](#)
- Forbes: [5 biggest smart home trends in 2020](#)

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THE INTERNET OF THINGS

AN EXPLOSION OF CONNECTED POSSIBILITY



Legacy system replacement outlook in 2021

- Insurers preferring to ‘work through’ legacy for existing business models with bi-modal approach that upgrades core with API and Microservices and allows integration of new value chain innovations
- Modern platforms, using packaged solutions, being introduced for digital ecosystem and embedded insurance models

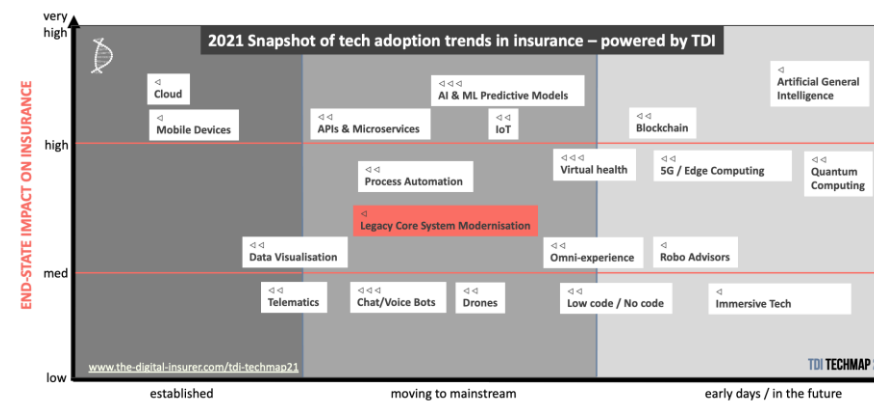
End State impact on insurance

Medium to high

Adoption Status & Speed

Moving to mainstream ◁

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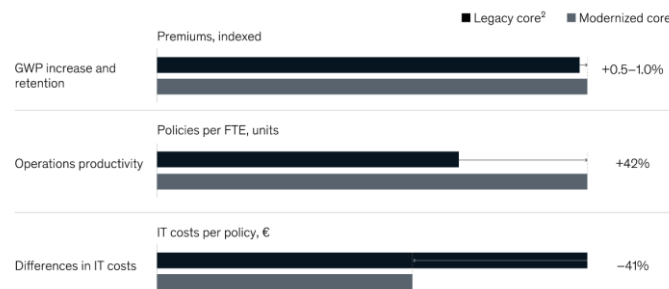


Strategic value to insurance

1. Increased operational productivity
2. Reduced IT costs
3. Increased revenue – new business lines and improved customer retention
4. Improved resilience – more agility to build new capabilities

New core systems can reduce overall costs.

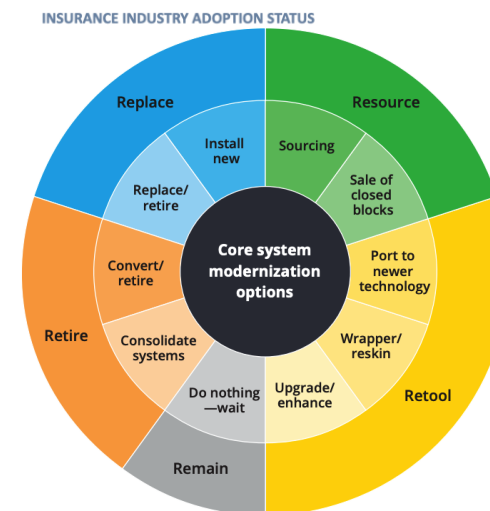
Median of select P&C players¹



Source: McKinsey - [IT modernization in insurance: Three paths to transformation](#)

Recommended reading

- McKinsey: [Top ten myths of technology modernization in insurance](#)
- Level: [The Price of Tech Debt: Legacy Systems’ Impact on Insurers](#)



Source: Deloitte & LIMRA - [Legacy systems modernisation](#)

Low Code / No Code outlook in 2021

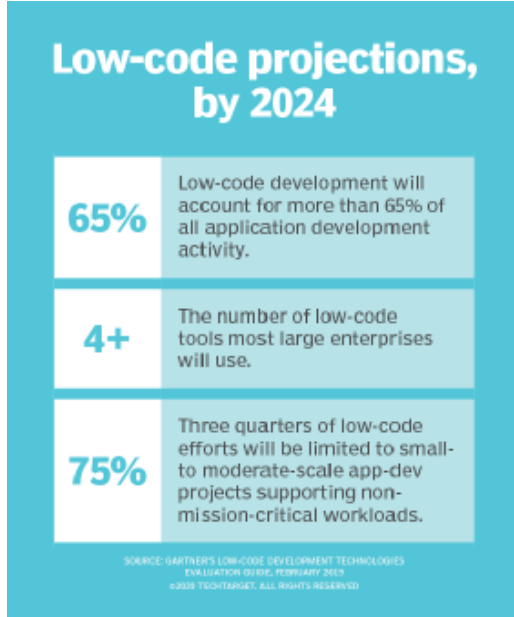
- Offerings evolving that avoid lock-in effect
- Continued progress for ease of integration via bundled APIs
- Established trend to democratising coding via low code / no code builds on established trend of democratising infrastructure via cloud

End State impact on insurance
Medium

Adoption Status & Speed
Early days /
moving to mainstream <<

Strategic value to insurance

1. Potential to Lower cost of implementation and maintenance
2. Faster speed of deployment
3. Help to address legacy systems / technical debt
4. Address resource shortages of skilled coders

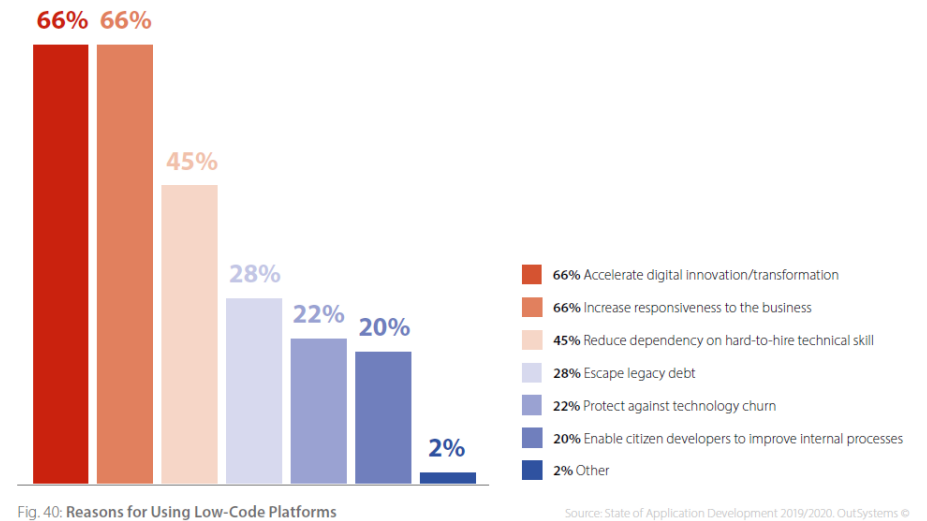
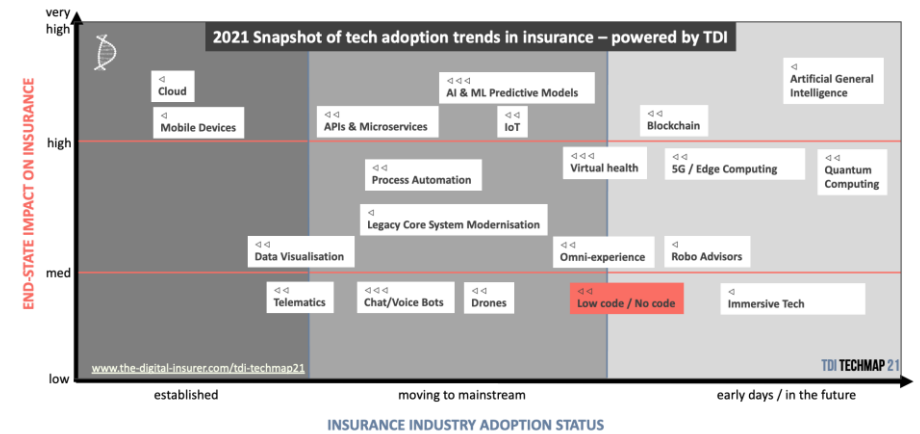


Recommended reading

- TDI Webinar: [Digital Transformation](#)
- Computer Weekly / Gartner: [What to consider before adopting low-code development](#)
- Insurtech world: [No-Code platforms the beating heart of insurance innovation](#)
- Inslly: [Why Your Insurance Business Should Be Ready for No-Code and Low-Code Platforms](#)

Source: Search IT Channel - [Vendors court no-code/low-code partners](#)

Click map below to return to the larger map



Source: The Newstack - [Low-Code Platform Adoption Gets a Boost from Digital Transformation](#)

Mobility device outlook in 2021

- Smartphone sales linked to rollout of 5G (covered separately) – maybe 50% of sales with 5G in 2021
- Covid driven: >70% rise in use of fintech apps in 2020 . Likely permanent change

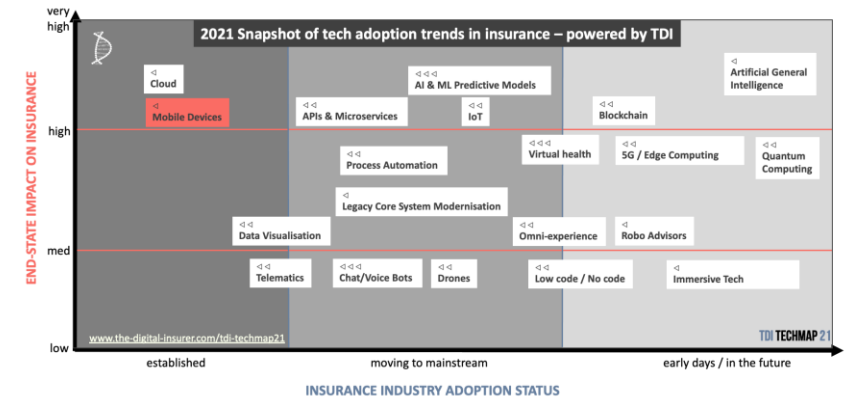
End State impact on insurance

High to very high

Adoption Status & Speed

Established ◀

Click map below to return to the larger map



Strategic value to insurance

1. Mobile first as key design philosophy
2. Smartphone continue to drive changes in consumer behaviour
3. Access to smartphone capabilities allows additional of value added services
4. The natural interface for chat and voice services
5. Smartphone drives rapid development of ecosystems – new value propositions & distribution opportunities



Recommended reading

- Forbes: [Tirias Research Predicts A Healthy But Cautious Outlook For Tech In 2021](#)
- Mobileappdaily: [Best Insurance Mobile Apps For Android & iOS \[2021\]](#)
- Forbes: [Coronavirus Drives 72% Rise In Use Of Fintech Apps](#)

Source: EFMA– [World insurance report 2020](#)



Omni-experience outlook in 2021

- Accelerated consumer interest and demand for blended sales and servicing support across all industries
- Other industries will likely lead on what good looks like, and new sales and service models
- Increasing interest and investment from more forward-looking insurers
- Within insurance, potentially led by new digital-first insurers looking to enrich propositions having already established differentiated brands

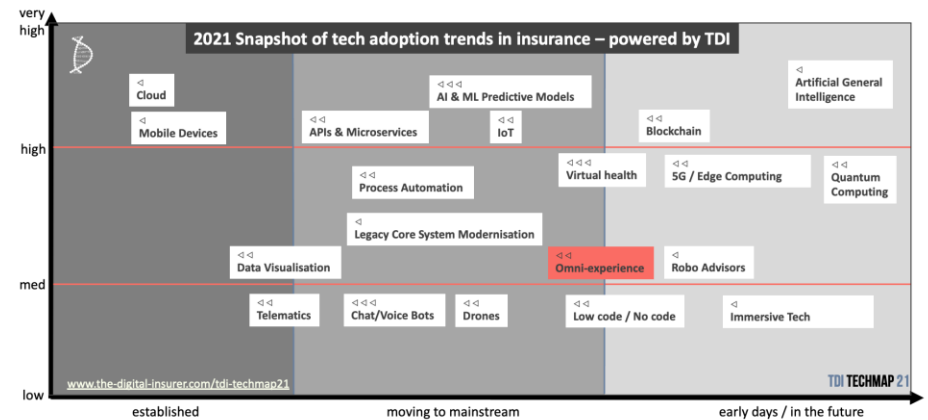
End State impact on insurance

Medium to high

Adoption Status & Speed

Early days / moving to mainstream <<

Click map below to return to the larger map



Strategic value to insurance

1. Increased consumer satisfaction and engagement
2. Improved cross-sell, up-sell and referrals
3. Enhanced customer data / value
4. Strengthened capabilities to participate with ecosystem partners
5. Better awareness of, and focus on, Customer Lifetime Value

Recommended reading

- Axell: [Human touch in a digital world](#)
- McKinsey: [The multi-access \(r\)evolution in insurance sales](#)

TDI PoV: Agency alarm bells ringing as consumer adoption of digital accelerates beyond tipping point

Insurers and their agents need to urgently transform, from "traditional sales" to an "OMNI Advisor" model, not only to stay relevant, but also to generate significant growth in the years ahead

In this TDI Point of View, The Digital Insurer's Hugh Terry and Simon Phipps consider the future of the insurance advisor in Asia, and present the OMNI Advisor Model (Fig 1) as a strategic approach to reinventing face-to-face insurance advice in an increasingly digital world.

Current face-to-face models are under severe stress. It has taken Covid-19 to illustrate what happens as consumers accelerate adoption of technology and reduce their face-to-face meetings and visits to branches. Lead generation has stalled, and this has inevitably led into reductions in new business volumes for many. Each insurer is in a slightly different position, but most will identify with the reasons opposite.

Many insurers are hoping for a return to business as usual once Covid-19 is behind us – but we believe this is misguided. What the pandemic has shown is that customers have leapt ahead in their adoption of digital, and this trend is likely to continue (albeit at a slower pace). In our recent [POV whitepaper on the digital tipping point](#) we estimated that consumer adoption of digital has already moved ahead by two years, further widening the gap between reality and consumer expectation faced by most insurers.

TDI is clear, and insurers in their hearts now know, that existing face-to-face business models urgently need to be reimagined and re-tooled for the digital world.

But all is not lost. For the first time, there is an alignment of key stakeholders - advisors are asking for tech, and risk management committees have, at long last, put digital towards the top of their agendas. Growth prospects and core fundamentals, especially in Asia, remain extremely positive.

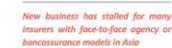
Alarms Bells are ringing for Traditional Sales Agents, but the future is bright for the OMNI Advisor



Fig 1: TDI OMNI Advisor is the transformational model for insurance advisory



Hugh Terry, Founder, The Digital Insurer



Simon Phipps, Founder & Head of Asia, The Digital Insurer

- Tech designed primarily for off-line face-to-face has failed to meet changing consumer needs
- The almost universal under-investment in digital marketing tools for advisors has left them too reliant on face-to-face lead generation
- "Sticking plasters" have been applied, but they do not provide the cure
- Consumers have moved ahead of agency offerings and are looking for a new purchasing experience



Online

Face To Face

Voice & Data

The multi-channel customer is...

- ▶ Better informed
- ▶ More demanding
- ▶ Uses multiple customer touch points for both sales & services
- ▶ Will jump channels at any point – catch them if you can!

Channel Performance



Source: The Digital Insurer - [Advisor of the future in a digital world](#)

TDI TECHMAP21 PROCESS AUTOMATION



Process Automation outlook in 2021

- Buzzwords – Robotic Process Automation has morphed to Intelligent Process Automation or even “hyper automation”
- Focus on delivering value and moving beyond hype. Process automation will merge and blend with chatbots , UI and D&A initiatives .
- Insurers will need agile integration teams to take full advantage
- Intelligent Document processing will increase – helping manage structured and structured data at key part of the value chain e.g. claims and underwriting

End State impact on insurance
Medium to high

Adoption Status & Speed
Moving to mainstream <<<<

Strategic value to insurance

1. Practical integration and automation tools that can work across multiple platforms
2. Quick and substantial return on investment
3. Bridging strategy to allow time for micros services and APIS to be take more of the load

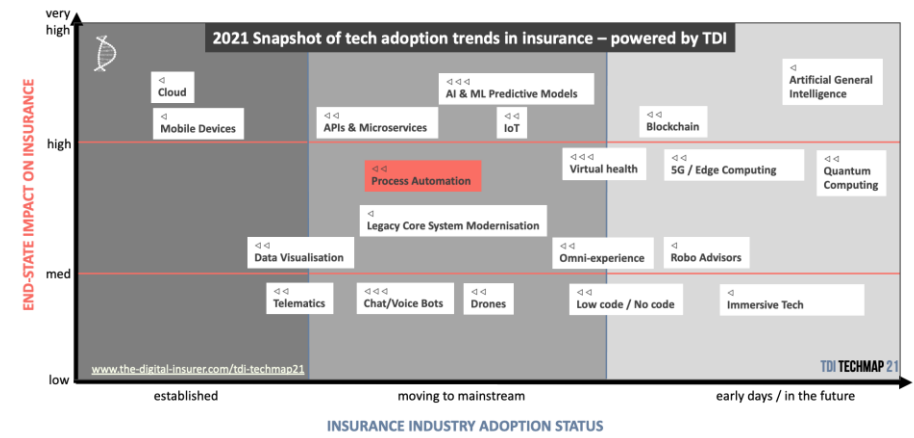
Recommended reading

- Workfusion – [Top uses cases for automation in insurance](#)
- Forbes – [predictions for RPA in 2021](#)
- Cigen: [Robotic Process Automation in Insurance: 5 Ways It Will Impact the Industry](#)

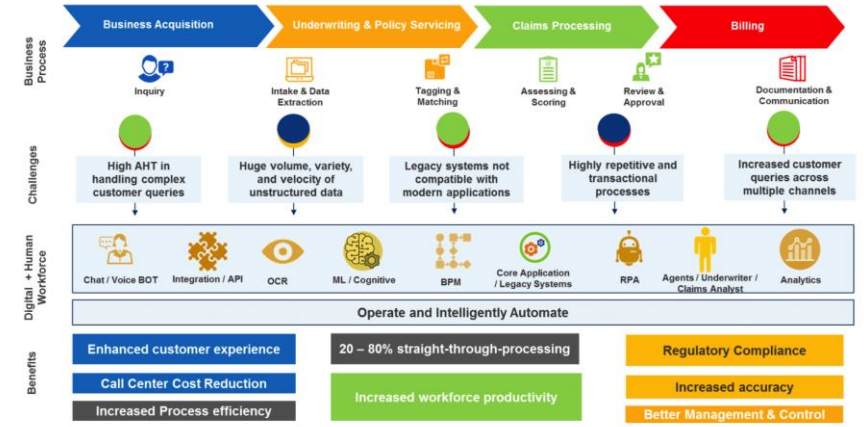


Source: Cap Gemini – [using intelligent process automation for insurance](#)

Click map below to return to the larger map



Intelligent Automation in Insurance



Source: Hexaware – [intelligent process automation for insurance](#)

Quantum Computing outlook in 2021

- VC money is pouring into quantum start-ups focused on the finance sector
- First commercialisation steps likely to be in asset management

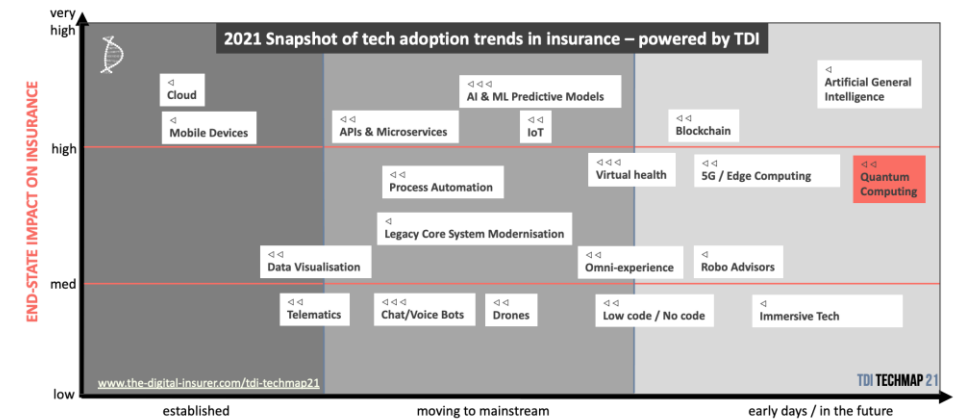
End State impact on insurance

Medium to high

Adoption Status & Speed

Early days <<

Click map below to return to the larger map



Strategic value to insurance

1. Step change in forecasting and predictive capability leading to new opportunities in risk and asset management
2. Potential for improved cyber security



Recommended reading

- Coverager: [Quantum computing and insurance primer](#)
- IBM: [Exploring quantum computing use cases for financial services](#)
- McKinsey: [A game plan for quantum computing](#)

INSURANCE INDUSTRY ADOPTION STATUS

EXHIBIT 2 | The Expected Phases of Quantum Computing Maturity

	NISQ era 3–5 years	Broad quantum advantage 10+ years	Full-scale fault tolerance 20+ years
Technical achievement	Error mitigation	Error correction	Modular architecture
Example of business impact	Material simulations that reduce expensive and time-consuming trial-and-error lab testing	Near-real-time risk assessment for financial services firms (e.g., quant hedge funds)	De novo drug design with large biologics that have minimal off-target effects
Estimated impact (operating income)	\$2 billion–\$5 billion	\$25 billion–\$50 billion	\$450 billion–\$850 billion

Source: BCG analysis.

Source: BCG- [Where Will Quantum Computers Create Value—and When?](#)

Source: IBM - [Exploring quantum computing use cases for financial services](#)

Robo Advisors outlook in 2021

- Well established in fund/wealth management but slower penetration in mainstream insurance
- Expect to see rise in use of recommendation engines
- Omni-advisory models will become more popular with bi-directional innovation –human advisor models go digital whilst robo-only models introduce a human touch

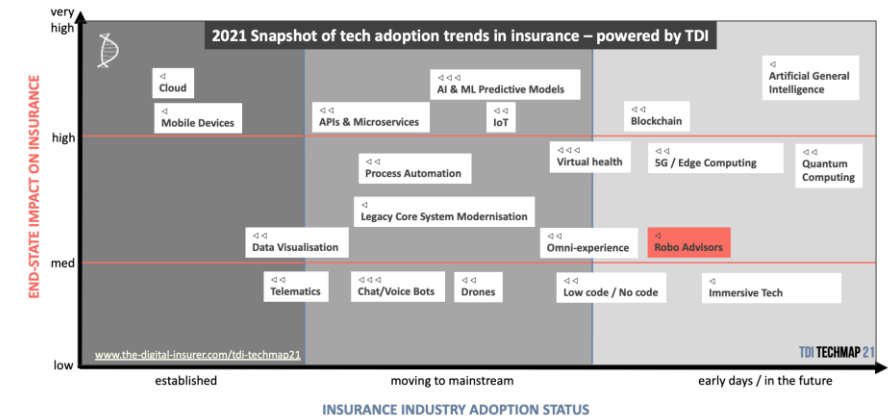
End State impact on insurance

Medium

Adoption Status & Speed

Early days ◀

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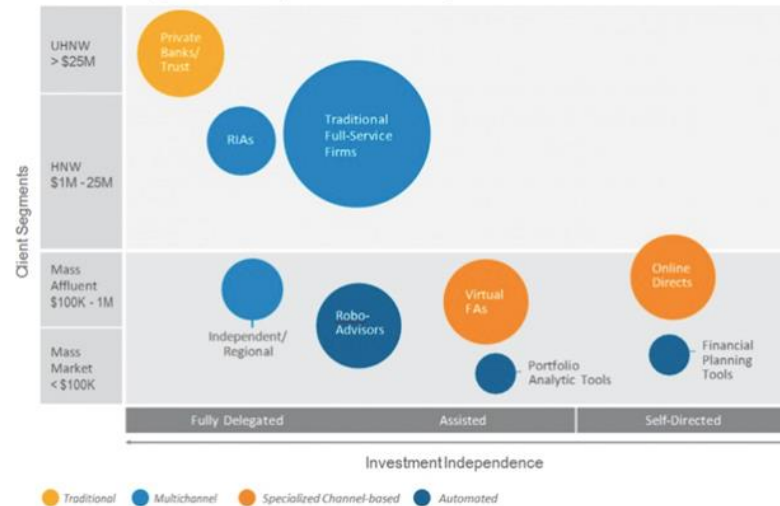


Strategic value to insurance

1. Open new markets by reducing cost of providing advice
2. Increased consistency in advisory process
3. New tools that assist human insurance advisors

Recommended reading

- The Balance: [What Are Robo Advisors?](#)
- Medium : [The Rise of Robo-Advice in Insurance Companies](#)
- TDI PoV Whitepaper : [The future of insurance advisors in a digital world](#)
- Amelia whitepaper: [A Next-Generation Digital Insurance Agent](#)



Source: Agenda Invest- [Money in 20 Years: The Future of Robo-Advisors](#)



Source: Insurance business Mag - [Humans and robo-advisors can co-exist](#)

Telematics outlook in 2021

- Commercial vehicle penetration to exceed 33%. By 2030 70% of light-duty vehicles will be connected to the internet (Statista)
- Assuming Work from Home continues post-Covid then demand for telematics insurance for personal cars likely to grow
- Increasing activity from car manufacturers e.g. Tesla leading to insurance as a service & within a broader proposition
- Increasingly about the data not the telematics device

Strategic value to insurance

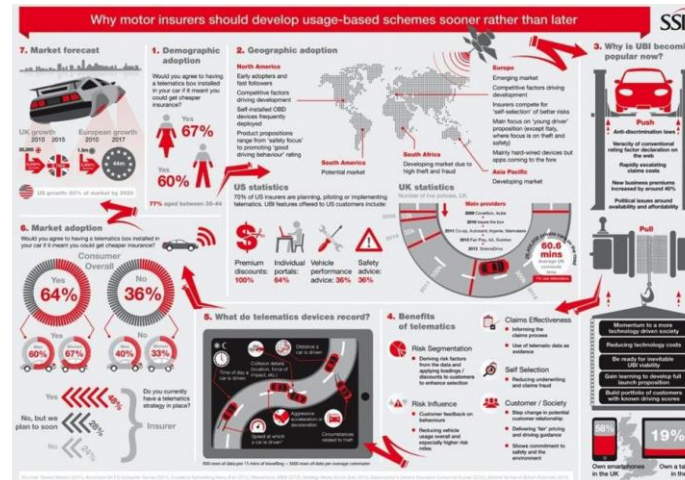
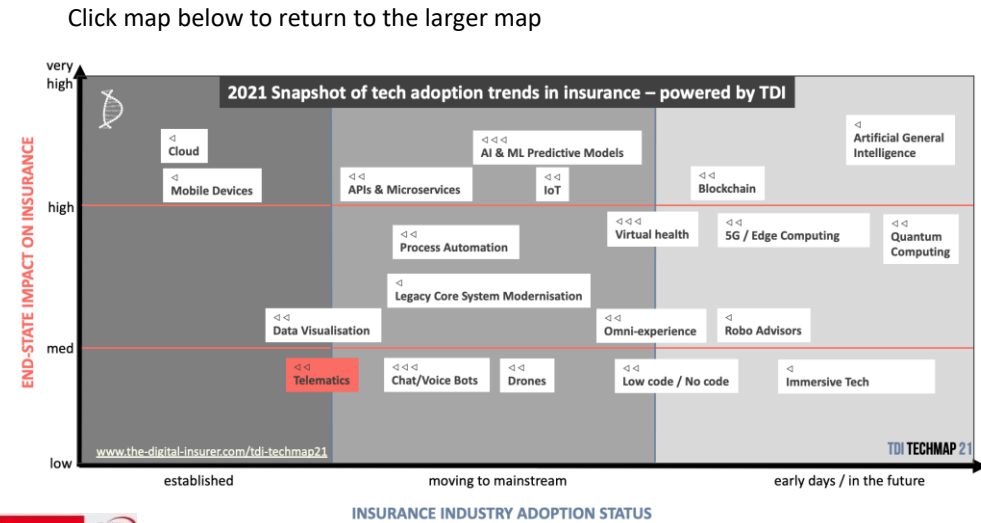
1. Opportunity to embed into emerging auto ecosystems
2. Creates a natural path for insurance on autonomous vehicles
3. Historically telematics insurance has been seen as a cost reduction play – but value added service opportunities exist
4. Will insurers who have no telematics experience have a future in auto insurance?

Recommended reading

- Intelligent mobility experience: [how telematics is transforming car insurance](#)
- Financial Times-video: [Is telematics the future of car insurance?](#)
- The Conversation: [why Tesla is selling insurance and what it means for drivers](#)
- Vitality Drive: [Consumer behaviour modification and rewards programme](#)
- Accenture-podcast: – [what self-driving cars mean for insurance](#)

End State impact on insurance
Low to medium

Adoption Status & Speed
Moving to mainstream / Established <<<



Source: Pinterest / GPS business news – [Infographic on case for insurers to adopt telematics](#)

COVID-19 Will Continue to Impact the Insurance Industry in 2021¹

Topic	Total	Gen Z	Millennial	Gen X	Baby Boomer
Percentage of drivers that use their vehicle less than pre-COVID-19 or do not use it anymore*	72%	65%	72%	73%	75%
Percentage of respondents that plan to make changes to their vehicle ownership/use in 2021	35%	44%	38%	36%	27%
Percentage of drivers that would allow their insurance carrier to collect real-time information about their mileage and driving habits if it led to lower premiums*	61%	60%	68%	59%	58%
Percentage of respondents that would choose to work at home in 2021	37%	30%	31%	38%	45%

Source: Globalnewswire/ TransUnion – [covid impact on car insurance](#)

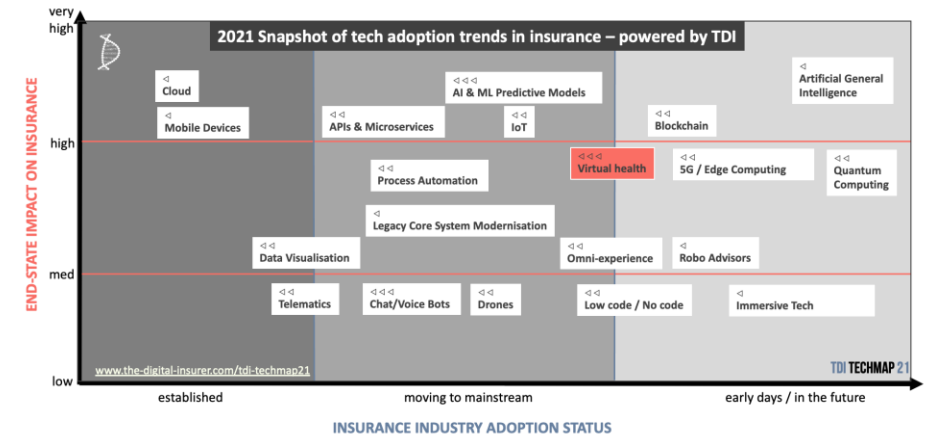
Tele/Virtual Consultation outlook in 2021

- Obvious boost from impact of covid-19.
- Market of US\$90 billion forecast by 2026 (Global newswire)
- Trend to more interactive & integrated solutions
- Digital therapeutics and telemedicine – both to grow strongly

End State impact on insurance
High

Adoption Status & Speed
Early days /
moving to mainstream <<<<

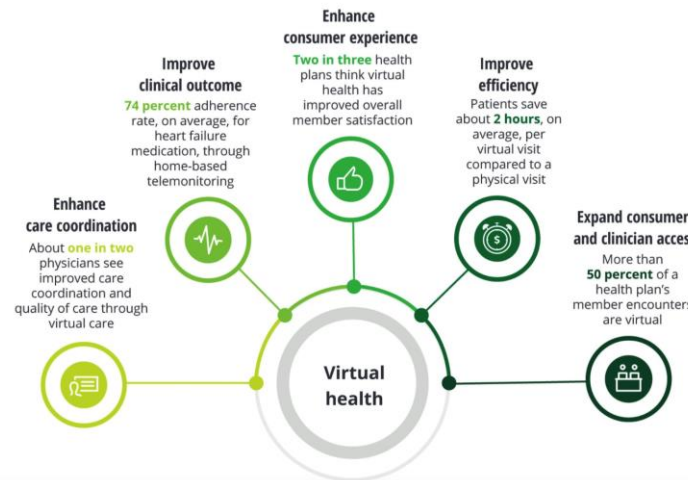
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Strategic value to insurance

1. Reduced Cost of consultation
2. Increased customer convenience
3. More control over downstream treatment costs
4. Solutions to help improve outcome for chronic and other diseases
5. Potential for step change in health outcomes

Virtual health can drive value across five key areas¹



Source: Deloitte - [The future of virtual health](#)

Virtual health applications can be segmented across three core categories.

Category	Subcategory	Definition
Telehealth	Synchronous (telemedicine)	Live, two-way audiovisual interaction between patients and providers (eg, video conference visits)
	Asynchronous (store and forward)	Live, two-way interaction between providers and providers (eg, video conference review of pharmacy prescriptions) Provider-to-provider transmission of recorded health history (eg, sending a lab test, X-ray, MRI), to a specialist to request a clinical opinion)
	Remote patient monitoring	Provider-to-patient transmission of patient information (eg, a provider emailing/texting a patient to check on them in post-visit follow-up, a patient sharing photos of a skin rash for review and diagnosis)
Digital therapeutics	Replacement therapies	Collection of electronic personal health/medical data which is transmitted for review by a remote provider
	Treatment optimization	Evidenced-based therapeutic interventions which leverage software to prevent, manage, or treat a medical condition, in lieu of conventional treatments (eg, pharmaceuticals)
Care navigation	Patient self-directed care	Optimizes medication, extending the value of pharmaceutical treatments (eg, improving medication adherence, monitoring side effects of medication)
	E-triage	Patients accessing their own information (eg, website with secure, 24-hour access to personal health information)
		Tools that provide support in searching for and scheduling appropriate care based on symptoms/conditions as well as price and quality of providers

Source: McKinsey:- [Virtual health: A look at the next frontier of care delivery](#)

Recommended reading

- McKinsey: [Telehealth - A quarter-trillion-dollar post-COVID-19 reality?](#)
- McKinsey: [The promise of digital therapeutics](#)
- Oliver Wyman: [Digital partnerships for health insurance](#)
- Global newswire: [Global Telemedicine Virtual Healthcare Market Report 2020](#)