

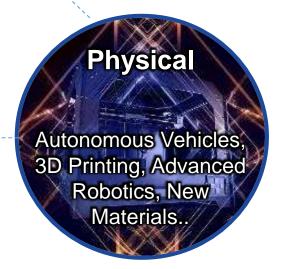
Trends

Fourth Industrial Revolution is Underway.....

Confluence of Technologies across Physical, Digital and Biological World

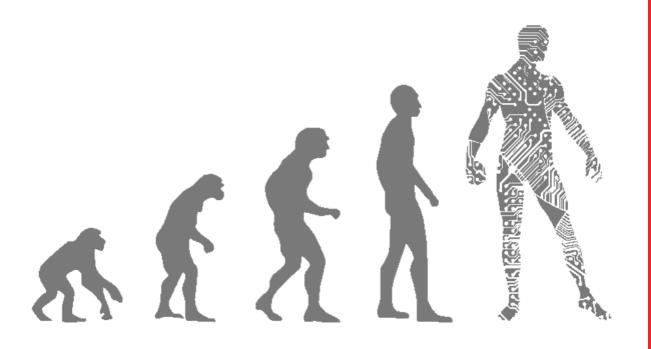








2045: The Year Man Becomes Immortal







Impact on Business across Industries...



Customer expectations redefined into experience



Products and services enhancement by data, which improves asset productivity



New partnerships are formed as companies learn the importance of collaboration



Operating models are being transformed into digital models



Industry convergence – emergence of 12 ecosystems by 2025



It is a world of "now"

Digital Transformation and Innovation:

Our Approach

Our Digital Vision and Strategy Becoming the "Financial Ecosystem" for Global Commerce

Digitize the Core



Connectivity for the Digital Age



Data as a strategic differentiator



Smart processing



Next generation client experience

New Digital Growth



Smarter solutions for smarter treasuries



Segment strategy for New Business Models



Digital Network of Networks



Advisory
(Treasury/Digital & Regulatory)

Digital Enablers

- Partnerships as an enabler of strategy
- Digital organization and innovation framework



Digital Transformation – Execution Priorities

Our digital transformation is accelerating, delivering value to both clients and shareholders

Engage

Deepening existing relationships and attracting new clients

- Easy access through any channel anytime, anywhere
- Streamlined digital on-boarding
- Seamless end-to-end digital solutions
- Actionable insights in real time
- Personalized offers

Simplify

Improving the client experience while lowering our cost to serve

- · Intuitive digital self-service
- Faster speed to market with new products and services
- "Smart" straight through processing
- Frictionless global platforms
- Data-driven / biometric security

Innovate

Using technology to drive new business models and client value

- Ecosystem / partner integration
- Co-creation with clients
- Incubation of new business models
- Emerging tech applications (e.g., Al, distributed ledger)
- Citi Ventures investments

Talent

Recruiting, development, workplace, culture

Core Capabilities

Data & analytics, cloud, APIs, cybersecurity



Digital Transformation – Institutional Clients Group



Delivering actionable insights and customized solutions

- CitiVelocity research, data and analytics platform with 85K client users in 136 countries
- Integrating data science and machine learning to enhance traditional client coverage
- Using big data to identify flow patterns & customize client solutions



Client

Simplify

Innovate

Enabling convenient, real-time intuitive interactions



- Top-ranked and ultra-low latency electronic trading solutions
- CitiDirect Payment, receivable and trade services execution globally in 135+ currencies
 - Automated liquidity management
 - Global funds transfer and tracking



Offering innovative, easy-to-access services

- Faster digital on-boarding
- All and machine learning driven algorith. pricing
- API integration in all businesses
- Sales / services via chat and co-browse

Providing secure, hassle-free protection



- Client threat detection and prevention against Cyber risks
- Bio-metric authentication for secure, seamless access
- Payment anomaly detection via machine learning



Leveraging new technologies for a continuous innovation cycle

- Client co-innovation & solution development
- >25 blockchain projects underway, plus 6 equity investments
- 12 FinTech investments over the past year

Delivering seamless connectivity across Citi and partners



- Instant 24x7 payments in 18 markets
- Enablement of client digital business models
- FIX connections with all major platforms / clients
- Private Bank integration to major chat platforms



Innovation

Approach to Innovation in TTS Business

Innovation Partner to TTS:

- Supports D10X
- Start-up partnerships
- Market trends and landscape

Engagement across geographies, products, functions

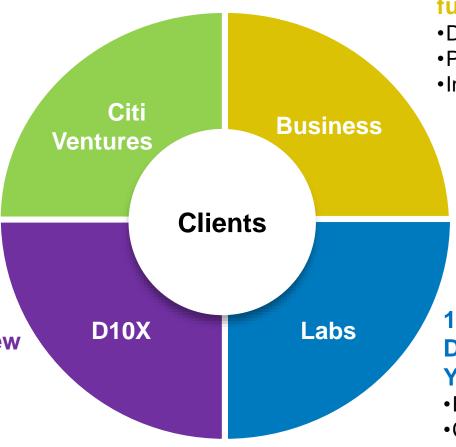
- Drives innovation mandate
- Provides sponsorship
- Innovation Catalyst Team

Framework for exploring new opportunities for TTS:

- Venture portfolio of 'bets'
- New to big ideas
- Client-focused propositions

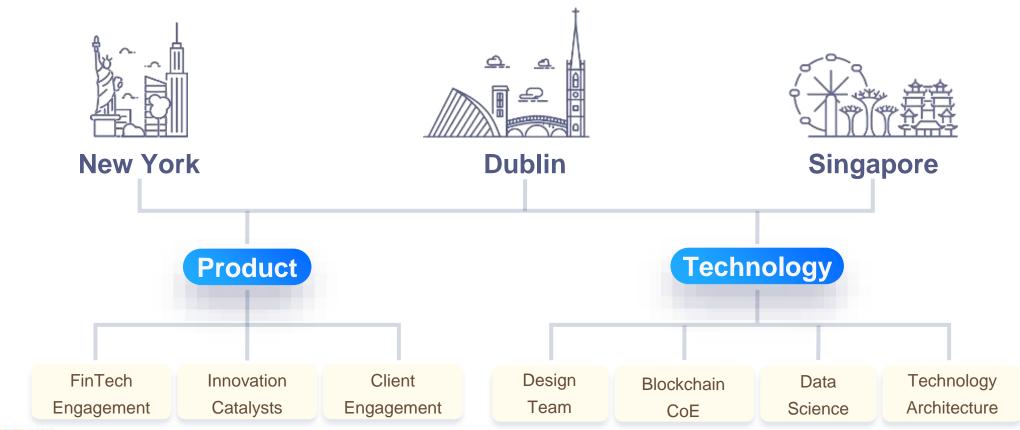
Labs 1 Lab in multiple locations: Dublin, Singapore and New York

- Experiments and exploration
- Client & tech validation
- Solution design
- Emerging technologies





Introduction to the TTS Global Innovation Lab





TTS Innovation

Uniquely placed to drive innovation

DUBLIN - NEW YORK - SINGAPORE



Partner to Transform



Support Innovation Execution



Bridge to Horizon



Catalyst for Innovation

ENABLE – EXECUTE

CITI 10 CITI

Catalyst Team

Business Acumen

150 Years in Transaction Banking

- Entrepreneurs
- Business owners
- New product development
- Solution consultancy
- Legal expertise

Blockchain

19 +
Projects

- Cryptographic digital assets
- Business logic automation
- Infrastructure & architecture
- Settlement & reconciliation

Design Thinking

100 Years in

Industries

- Innovation lifecycle
- User Experience
- Prototyping
- Facilitation & visual comms
- Ethnographic research

Data Science and Al

80 + Experience in

- R&D
- Customer engagement
- Internal efficiencies
- Risk and compliance

10 Industries

Citi Innovation Labs Network

• Labs align at Business level across Citi, collaborating through co-lab network





Regulation

Key ingredients for a digital friendly regulatory framework

Allow for competition to unfold

 Strong competition between banks and non-banks is also taking place to the benefit of customers. This competition is healthy for the market and should be encouraged by enabling both incumbents and new players to deploy their digital strategies within the boundaries of a regulatory framework that equally supports all market participants.

Prioritise digital

 Review (not entirely delete and re-write) the existing complex body of financial services regulation to ensure it is fit for purpose to support banking in the digital era

Promote innovation and avoid unintended consequences

An unsuitable regulatory framework can be a disincentive to experimentation. Undertaking regulated activities usually requires explicit permission from the regulator and approval of the way in which the firm in question goes about its business. A risk-averse regulator may not be willing to grant permission to unfamiliar or unproven business models and thereby hamper innovation

Same service, Same risk, Same rules, Same supervision

Regulatory, market & innovation strategy: policy perspective

Defining Financial Technology ("FinTech")	At present the term "FinTech" is undefined in any rulebook. FinTech is not reserved to 'emerging' technology businesses; the incumbent financial industry is also a key provider of FinTech solutions.
Engagement with FinTechs	Engagement and transparent communication is key, as many FinTechs may develop services that fall into the regulated space, without knowing it. Examples of engagements between regulators, FinTechs and financial services incumbents include innovation hubs, regulatory sandboxes and the Global Financial Innovation Framework
Caution Against Rushing to Regulate and promoting self regulation / guidelines	A better understanding is required (by regulators, the regulated and the non-regulated) of what the different innovative technologies can deliver (how financial firms can deploy it), strengths, weaknesses, to what degree these could introduce new risks etc. Where technology intersects with regulated processes and changes roles/responsibilities of regulated actors or the ability to supervise them, or creates legal uncertainty, existing laws may need to be future-proofed • One of the ways to drive forward this learning process is via so called 'regulatory sandboxes' • In some cases self – regulation or guidelines may be appropriate so as to not stifle innovation. With respect to blockchain / DLT the way for self regulation has already been paved through the use of standards aimed at providing common language for industry, policy makers, regulators and technology developers
Global Policy Consistency	Finance is an international cross border business and many emerging FinTech business models already operate across borders • It is therefore critical for regulators to work together on a global scale to see how these business models intersect with local regulation and to align regulation so that regulatory arbitrage can be avoided

Any future policy should be developed along the following principles:

- 1) Digitally friendly
- 2) Technology / platform neutral
- 3) Providing legal certainty
- 4) Ensuring a level-playing-field
- 5) Be proportionate
- 6) Product / service orientated



The end

It is Up to Us







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