

# Introduction to Open Banking & the Metaverse

**Presented By: Paul Margarites** 

Date: O

October 20, 2023

# Agenda

■ What is Open Banking? ■ Open Banking: Evolution & Benefits ☐ Open Banking: Banks vs. Fintechs Business Banking Client Challenges ☐ Introducing: TD Embedded Banking Solution ☐ Client Value Proposition ■ TD Embedded Banking Products & Roadmap What is the Metaverse? Metaverse in Numbers **Metaverse Benefits** Banking in the Metaverse

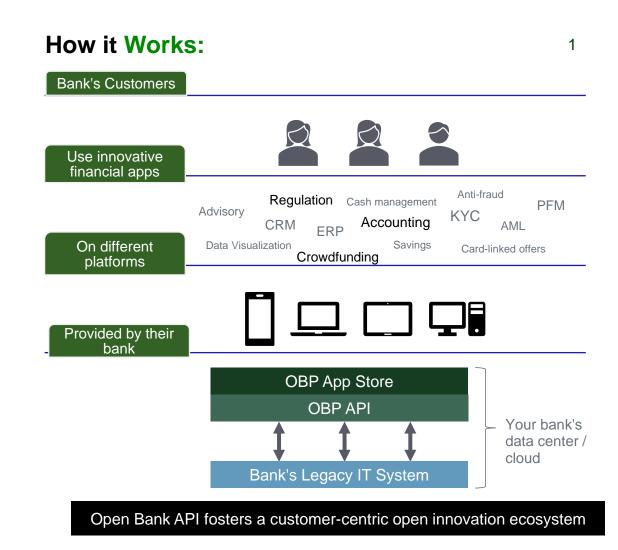
# Open Banking: An Introduction

## What is Open Banking?

A system under which banks open their APIs to third parties upon customer consent to create new products and services

Open Banking represents a significant opportunity to innovate and transform core services





# **Evolution of Open Banking**

Macroeconomic forces have contributed to the evolution of Open Banking; Global adoption has skyrocketed with FIs launching APIs/API enabled products and services rapidly since 2018



New **regulations** such as PSD2 are ushering in Open Banking



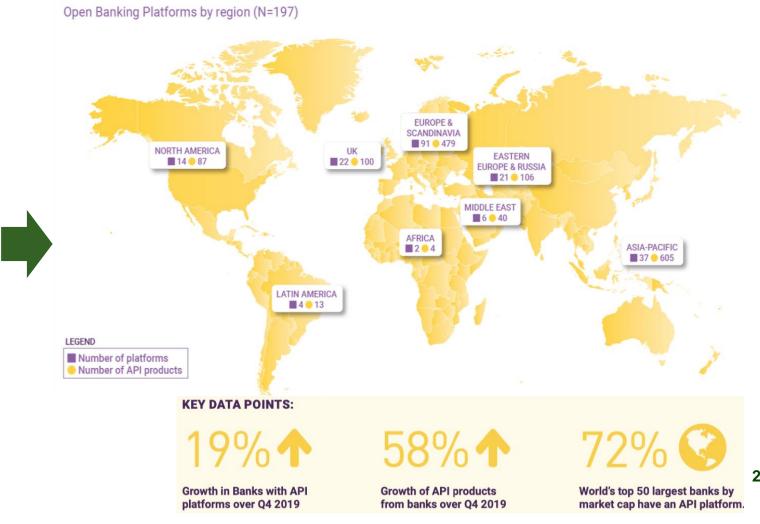
New technological Innovations especially push to instant payments are driving demand for Open Banking



Evolving consumer expectations with a desire for frictionless experiences, 24x7 availability and real time convenient services



Competitive pressure emanating from emergence of Fintechs, neo/challenger banks & incumbent banks launching API portals



# Benefits of Open Banking

The benefits of Open Banking are numerous: paving the way for net new business models and revenue streams



Innovative products & Services



Real time view of cash positions of a business/enterprise leading to operational efficiencies



Customized & relevant product offerings



Increased customer engagement



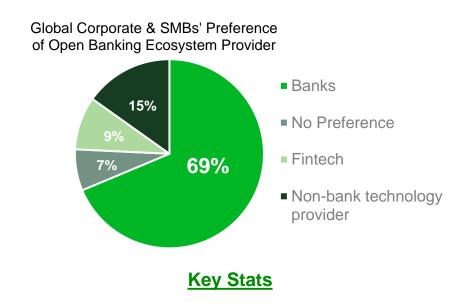
Increased speed to market for products and

Model	Description	Examples
1. New services	Creating new services that access customer data from other banks and financial institutions or to extend services provided	Budgeting, Cash Management, Accounting Software Services
2. New channels	Accessing third party audiences by placing your provider or service within another's context	Incorporating into account packages, Alibaba for cashflow, foreign exchange, payments through social channels
3. New utilities (As-a- Service)	Providing a new utility or service to the market	BBVA/Solaris Bank opening platforms and APIs to launch Banking-as-a-service, Goldman Sach's Banking-as-a-service
4. New platforms	Enabling third parties to connect with banks and other servicesNet new platforms being launched by financial services and innovate companies promoting financial and non-financial products & services, marketplace model by DBS	

# Banks versus Fintechs

A plethora of Fintechs offer Open Banking capabilities; the bank is still the safest way for enabling connectivity





~85%+ clients are ready for a new era of open banking / data sharing
72% of Large Corporations interested in an Open Banking platform
65% of SMEs are interested in an Open Banking platform
Of these, 69% prefer their banking institution be a provider of Open Banking opportunities

# **Business Banking Client Challenges**

Clients struggle with manual entries and daily reconciliation surrounding Accounts Payables & Receiveables

Accounting and Finance professionals **struggle** with

Dual screen Manual journal entry Making accounting & reconciliation Payments

Vendor Multi-bank Management Relationship

Which means?

**Time Wasted + Human Error** 

= Inefficiency

# Introducing: The TD Embedded Banking Solution



# What is TD Embedded Banking?

Commercial clients use Enterprise Resource Planning Software (ERP) to manage business processes.



**Embedded Solution** 

**Business banking** clients use **Accounting Software** to manage their financials.



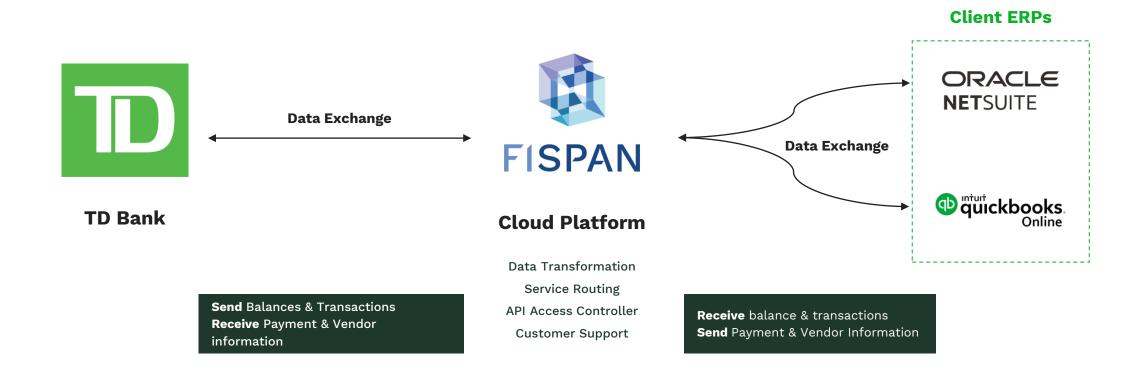
**Companion App** 





# TD / Fispan Partnership for Embedded Banking

The TD Bank Connector powered by Fispan allows TD to connect to multiple client ERP systems / Accounting Softwares

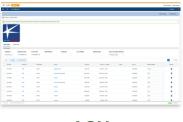


# TD Products LIVE in NetSuite & QuickBooks Online





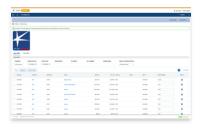
Balance & Transaction Reporting



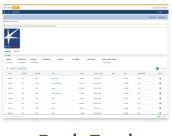
ACH



**Positive Pay** 



**Check Print** 



Bank Feed





Balance & Transaction Reporting



**ACH** 

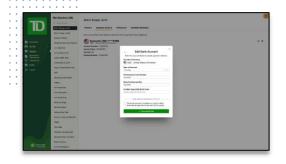


**Check Print** 

# TD Products COMING SOON! In NetSuite & QuickBooks Online









# Additional Payment Types

Additional payment methods including Wire, Virtual credit cards, and Check.

# **Account Transfers**

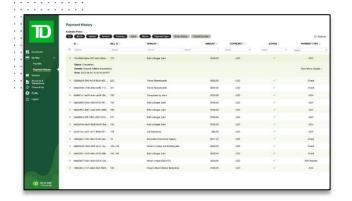
Bank clients will be able to access their available funds and easily transfer balances from any one of their bank accounts to another.

## **Check Images**

Embedded directly into the ERP environment via the FISPAN plugin, clients will be able to view their check images and verify information.

### **Domestic Wires**

Allows for the payment of bills through domestic wire transfers.



# \*Positive Pay\*

Populates a list of checks printed in-house for which Positive Pay files can be transmitted directly to the bank from the user's ERP.

# Client Value Proposition



#### **Smart Integration**

Integrates behind the scenes with ERP/Accounting software to bring together live banking and accounting Data. No IT lift required from TD Bank or end user.



#### **Easy Payment**

Directly pays bills through TD Bank accounts via ACH.



#### **Real-time Transaction Information**

See previous day and intraday balances with near real-time transaction information directly from the bank.



# Automatic Journal Entry & Reconciliation

Avoids accidental dual entry, keeps books consistent and automates reconciliation.



#### **Easy Vendor Management**

Pulls vendor information from accounting software where additional data can be added anytime.



#### **Save Time & Money**

Save time on making payments, accounting and audit hours.

# **Metaverse: An Introduction**



# What is the Metaverse?

Metaverse is a unified immersive experience brought to life by the convergence of multiple technologies:







**Blockchain** 



Artificial Intelligence (AI)



Non-fungible Tokens (NFTs)



3D Reconstruction





Crypto Currency



Internet of Things (IOTs)

# Metaverse in Numbers

# \$5 Trillion<sup>5</sup>

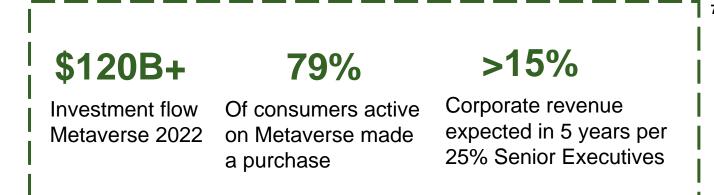
**Expected Metaverse value by 2030** 

95%

Business Leaders expect a positive impact on their industry in next 5-10 years

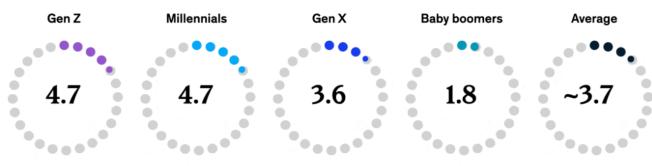
60%

Of consumers familiar with Metaverse engage in Metaverse activities today



# U.S Consumers to spend almost 4 hours per day in the next 5 years in Metaverse<sup>9</sup>

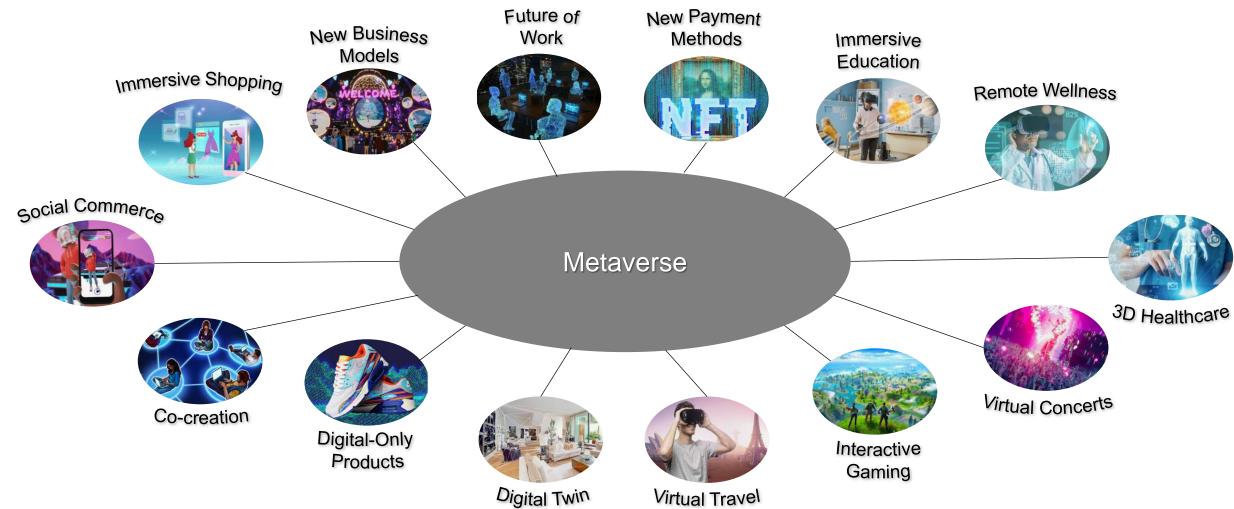
Expectations of time spent in metaverse in 5 years, by generation, hours per day



Source: McKinsey Metaverse Consumer Survey (Feb 2022) Source 5,6,7,8: McKinsey: Value creation in the Metaverse; 9 Source: McKinsey: Myths of the Metaverse

# **Metaverse Benefits**

The Metaverse will offer consumers and businesses enhanced experiences and opportunities and impact every facet of our future lives



#### **Use Case: Bank Storefront/Branch**

#### **Application:**

- Avatars provide immersive customer support in virtual branch/store
- Payments/mortgages/insurance products transacted via crypto currencies, digital assets and NFTs
- Extend bank footprint / services in virtual world



- Perform self-service transactions in VR
- Securely converse with bankers in trusted transaction space
- Meet customers in their channel of choice and engagement





#### **Use Case: Al Customer Service**

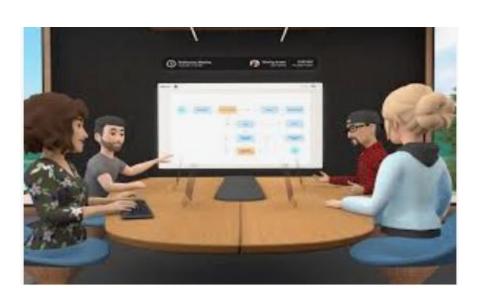
#### **Application:**

- Al based avatar provide real time assistance replicating branch/call center support issues
- Virtual ATMs provide advice and troubleshoot customer support issues
- Offer financial education and enhance banking experience for clients



#### **Use Case: Al Advice/Relationship Management**

- Deliver personalized experiences/advice to clients for complex products such as wealth management, insurance and business banking
- Provide high touch 1:1 advice via virtual medium
- Enhanced customer engagement
- Offer financial advice and education transforming the banking experience



#### **Use Case: Marketing & Advertising**

#### **Application:**

- Opportunity to extend brand in unlimited ways
- Opportunity to target customers not in traditional footprint
- Opportunity to capture untapped customer segments
- New channel to sell digital only products/services





## **Use Case: Training & Simulation**

- Emulate on-the-job scenarios through mixed and virtual reality/use of Avatars curating realistic trainings
- Easily scalable training scenarios
- Trainings deliverable to a larger mass
- Complex trainings delivered via holographic simulation





**Use Case: Virtual Meetings** 

#### **Application:**

- Collaborative meeting spaces bridge gap created by remote work by bringing colleagues together
- Reduce pressure of video calls via Avatars
- Allows for personalization in the workspace





**Use Case: Remote Work** 

- Promote Cross team and cross disciplinary communication and collaboration via simulated coworking spaces
- Collaborate with team members globally
- Encourages content, collaboration and cocreation





# Thank You