



Fintech

A WIL Digital Initiative

Presented by the Information and Communications Technology Council

Welcome to ICTC's WIL Digital: FinTech 101

ICTC's WIL Digital is an innovative Work Integrated Learning program that helps students gain insight and skills to advance learning and meaningful work experience.

About this course

FinTech 101 strives to develop the next generation of FinTech talent, and is driven by a strong network of FinTech companies and industry partners.

FinTech 101 offers a strategic learning journey for students. Upon completion, you will receive the **FinTech 101 digital badge and certificate**.

This certificate is validated by ICTC, your employer and industry partners and recognizes sector-specific skills learned during your work-placement.

In order to obtain the **FinTech 101 certificate**, you must complete the following.

All 4 core modules in:

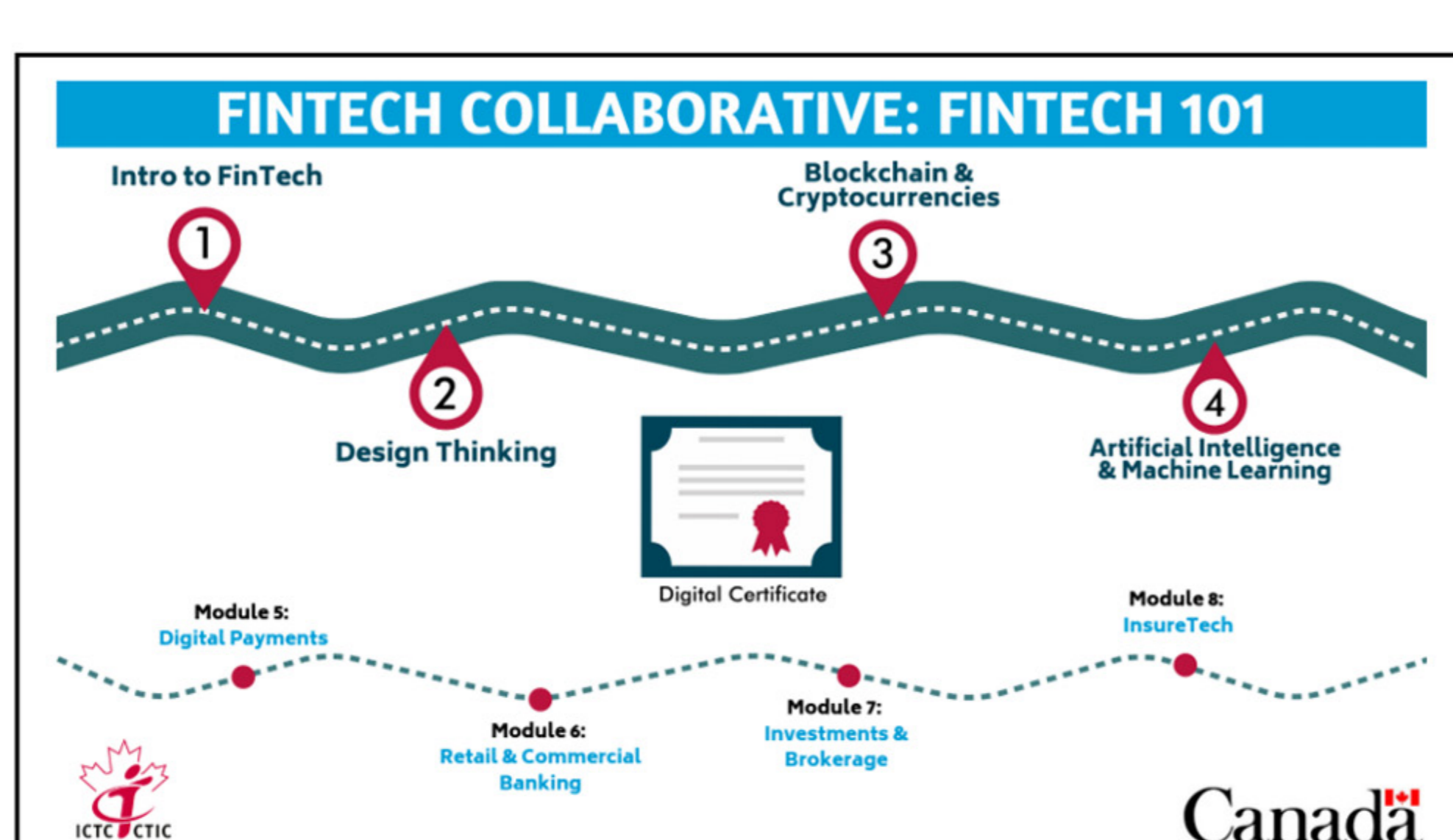
1. Introduction to FinTech
2. Design Thinking
3. Blockchain & Cryptocurrencies
4. Artificial Intelligence & Machine Learning

and 2 of the 4 optional modules in either:

- Digital Payments
- Retail & Commercial Banking
- Investments & Brokerage
- Insurance & Insurtech

Targeted Audience:

This course is designed for students who are interested in developing fundamental skills in the subject of FinTech, as an entry-level introduction to this topic. Students who are already proficient in this subject matter are encouraged to take another of the WIL Digital courses available, which provide an excellent lateral understanding of concepts associated with this course. If you are interested in studying a more in-depth version of this subject, please contact your course facilitator for options available.



Fintech

A WIL Digital Initiative

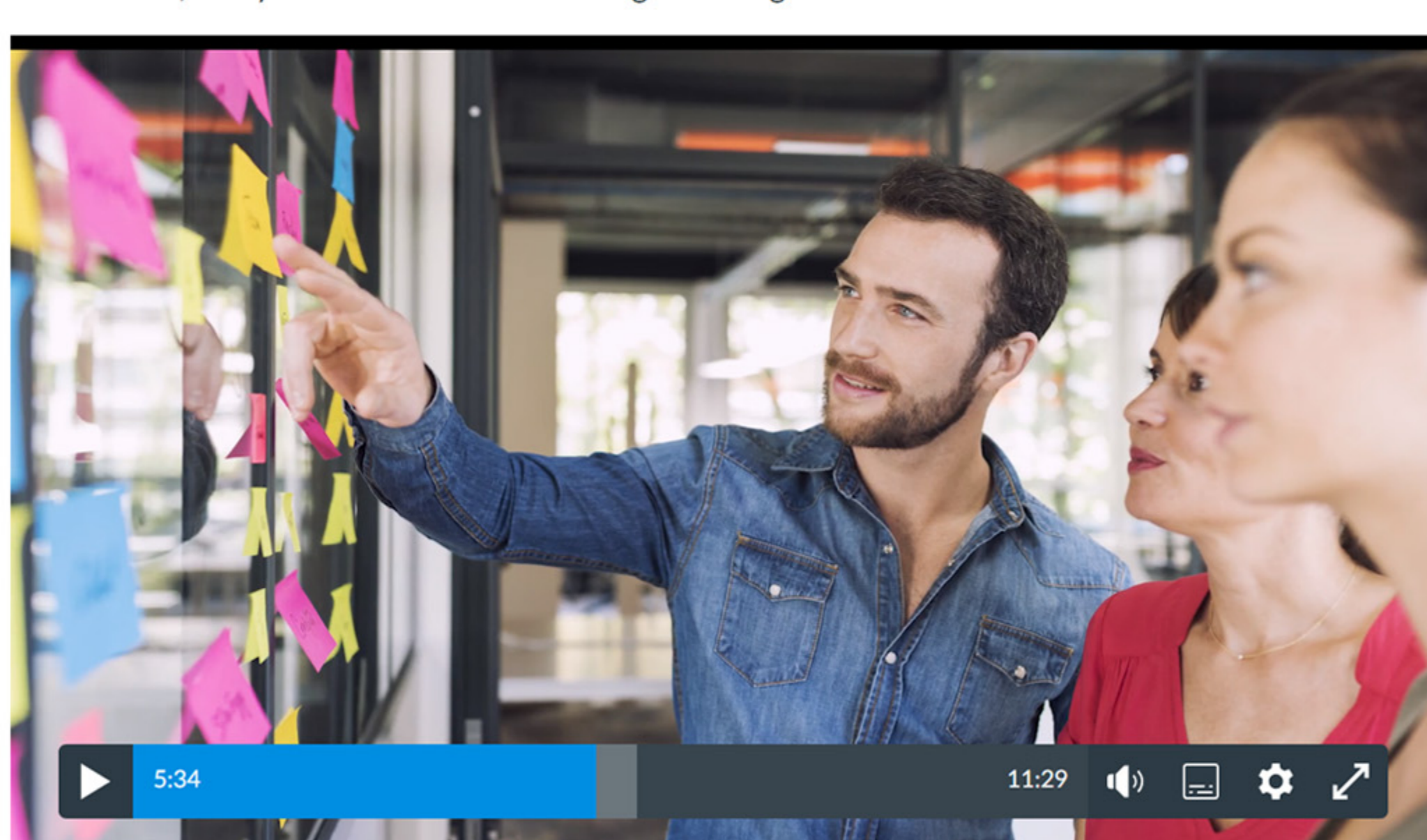
Presented by the Information and Communications Technology Council

Module Overview

Design thinking is a set of strategies that put the end-user at the centre of the problem-solving process. While not specifically a FinTech topic, adopting a design thinking mindset can be instrumental in tackling the complex challenges that arise when using technology to positively impact the financial services industry. This mental model helps ensure that solutions are created with end-users in mind, avoiding the creation of technical tools, applications and platforms that don't meet user needs.

Module 2 Video 1 - Design Thinking

In this video, Ramy Nassar will introduce design thinking and how it relates to financial services and fintech.



About Ramy Nassar - Partner, 1000 Days Out

Ramy is the founder of 1000 Days Out and author of the AI Product Design Handbook. As the former Managing Director of Design & Strategy for Architech and Head of Innovation for Mattel, he has led diverse teams in the creation of disruptive new digital products, services & platforms. Ramy teaches Design Thinking at McMaster University and in the Master's of Engineering, Innovation & Entrepreneurship program at Ryerson University. You can contact Ramy through [1000.Days.Out](#) e .

Module 2 Video 2 - An Industry Partner's Perspective



Fintech

A WIL Digital Initiative

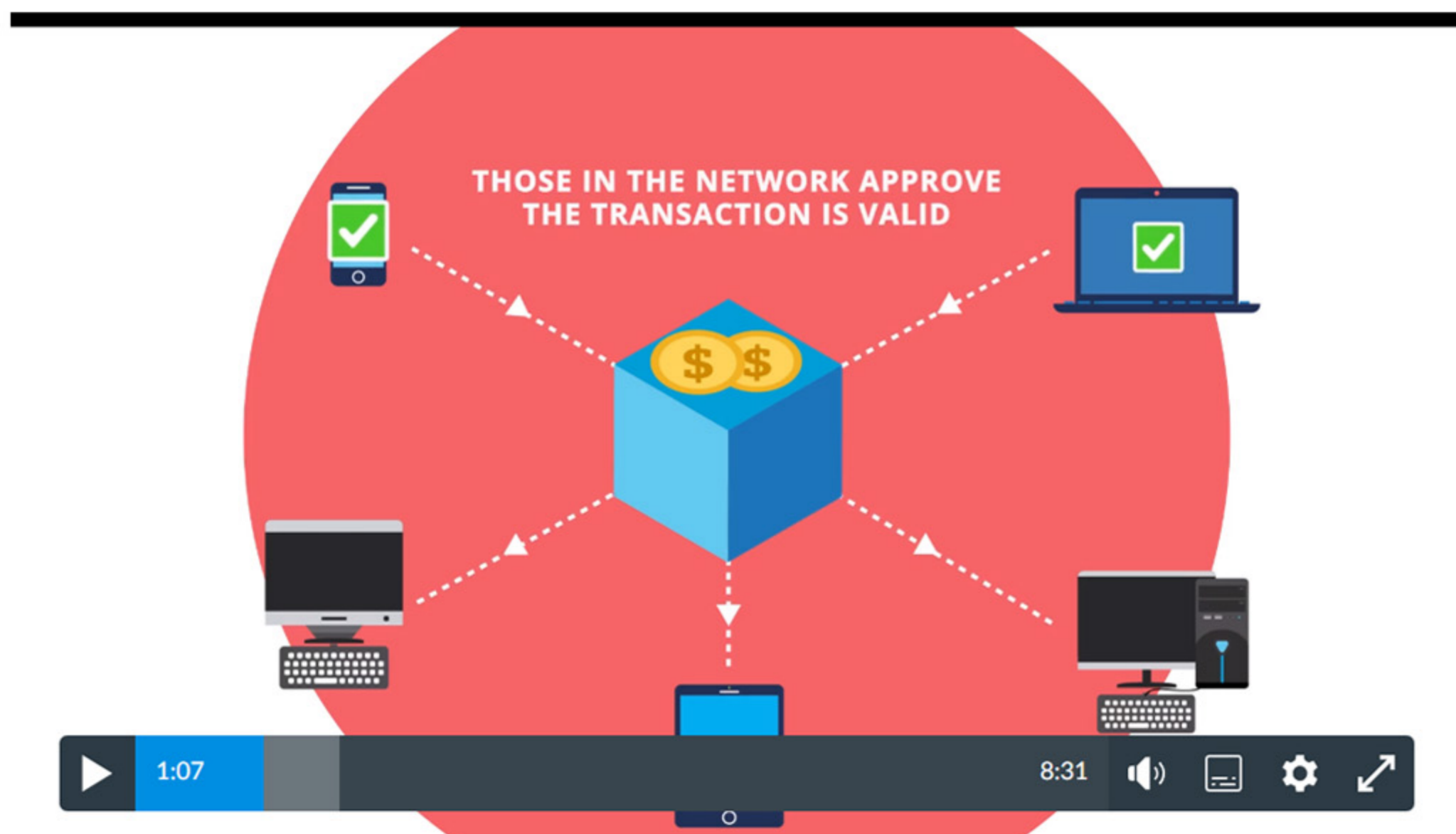
Presented by the Information and Communications Technology Council

Module Overview

The Blockchain, most famously known for the cryptocurrency Bitcoin that is built on top of it, is simply a decentralized ledger that can track transactions across peer-to-peer networks. Blockchains have a wider range of applications, including cryptocurrencies and smart contracts, both of which have the potential for far reaching impacts in the financial services and related industries.

Module 3 Video 1 - Blockchain & Cryptocurrencies

In this video, Ramy Nassar will be discussing blockchains and cryptocurrencies.



Module 3 Video 2 - An Industry Partner's Perspective



Fintech

A WIL Digital Initiative

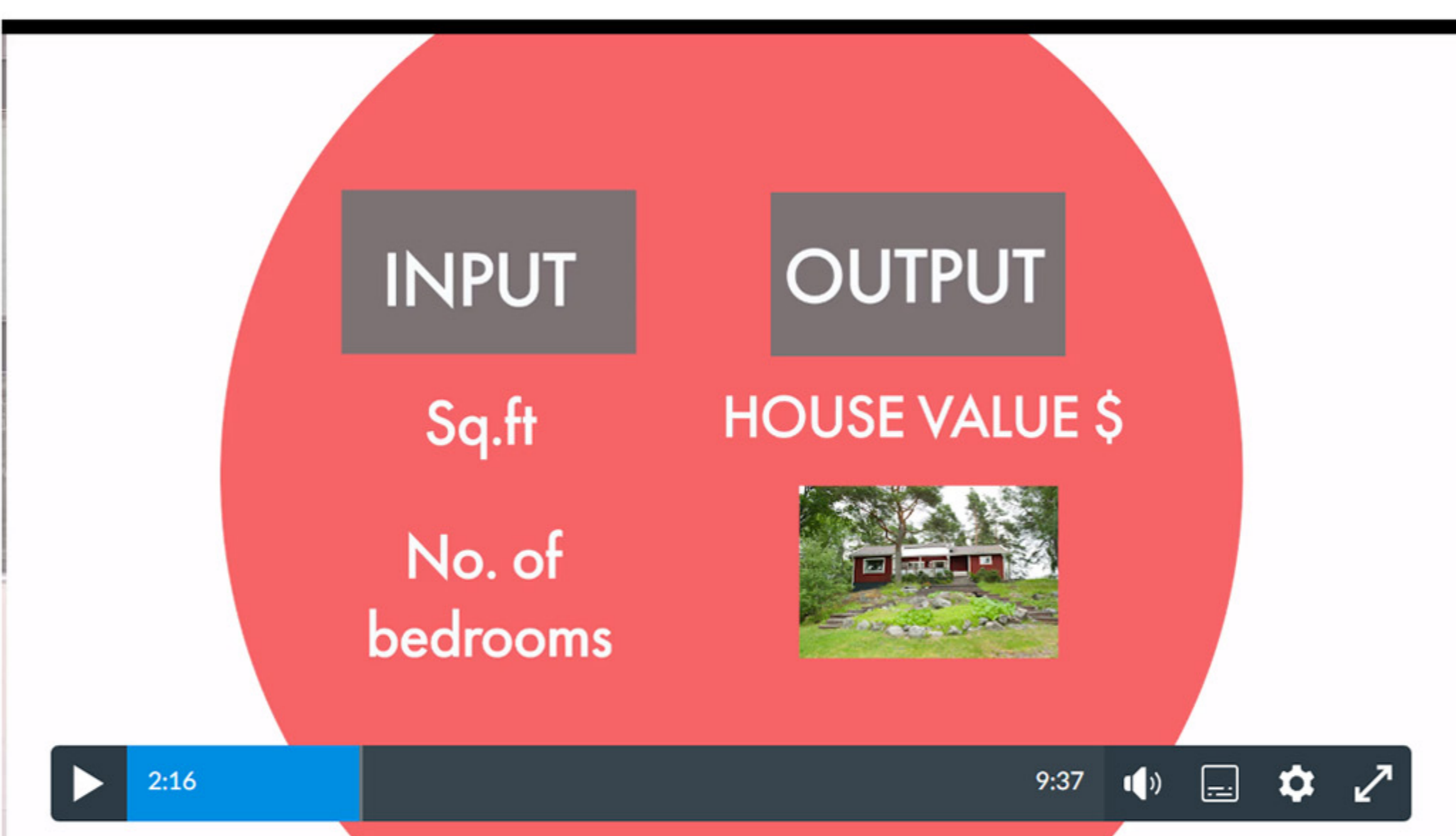
Presented by the Information and Communications Technology Council

Module Overview

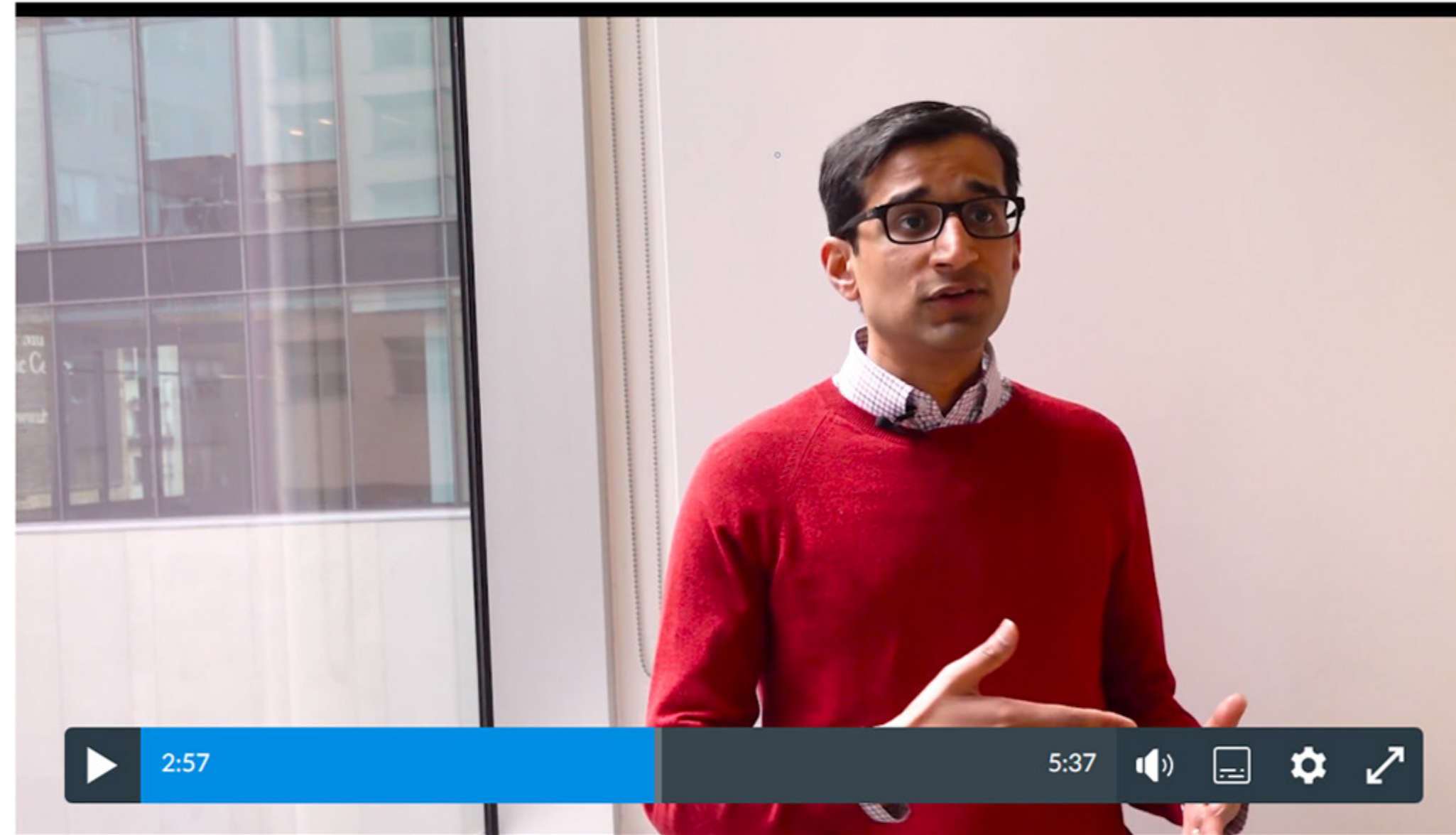
Artificial Intelligence (AI) is a broad set of technologies, first developed in the mid-1950s, which seek the ability for computers to complete a range of tasks normally associated with human behaviour and cognition. Machine Learning (ML) is a subset of AI, composed of a range of specific algorithms that "learn" from historical data. Other parts of the AI ecosystem include computer vision and natural language processing (NLP) - the algorithms behind most of today's voice/conversational interfaces. Machine Learning is beginning to impact just about every aspect of FinTech solutions, as such, an understanding of what the technology is and (more importantly) is not capable of is critical.

Module 4 Video 1 - AI & Machine Learning

In this video, Ramy Nassar will introduce the concepts of artificial intelligence and machine learning and how they apply to fintech.



Module 4 Video 2 - An Industry Partner's Perspective



About Ramy Nassar - Partner, 1000 Days Out

Ramy is the founder of 1000 Days Out and author of the AI Product Design Handbook. As the former Managing Director of Design & Strategy for Architech and Head of Innovation for Mattel, he has led diverse teams in the creation of disruptive new digital products, services & platforms. Ramy teaches Design Thinking at McMaster University and in the Master's of Engineering, Innovation & Entrepreneurship program at Ryerson University. You can contact Ramy through [1000.Days.Out](#) e .



Fintech

A WIL Digital Initiative

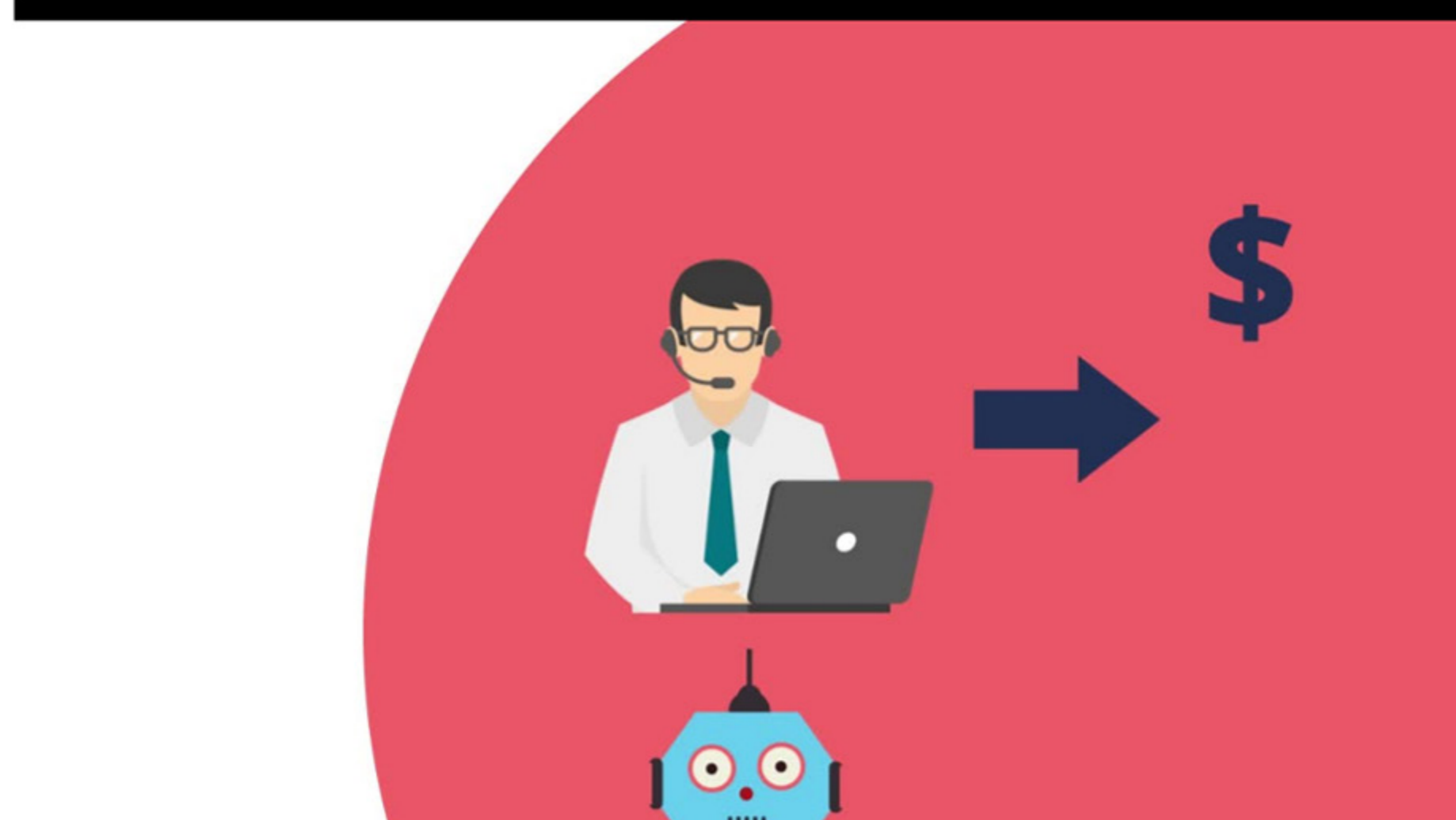
Presented by the Information and Communications Technology Council

Module Overview:

Investments & Brokerage is a subset of the FinTech space focused on using technology to impact the wealth management industry. On the consumer side, the most common Wealth management applications and platforms are known as Robo-advisors, which are algorithmic-based tools that either provide investment advice or in many cases, completely automated portfolio management. Wealth management is a newer sub-field of FinTech but growing rapidly due to the competitive and attractive value propositions created by upstart companies in this space.

Module 7 Video 1 - Investments & Brokerage

In this video, Ramy Nassar will be discussing investments and brokerage.



Module 7 Video 2 - An Industry Partner's Perspective

In this video, you will listen to the perspective of Jonathan Nguyen, Leader of Client Relations and Operator investment management service that combines user-friendly digital tools and personal financial advice to ma



About Ramy Nassar - Partner, 1000 Days Out

Ramy is the founder of 1000 Days Out and author of the AI Product Design Handbook. As the former Managing Director of Design & Strategy for Architech and Head of Innovation for Mattel, he has led diverse teams in the creation of disruptive new digital products, services & platforms. Ramy teaches Design Thinking at McMaster University and in the Master's of Engineering, Innovation & Entrepreneurship program at Ryerson University. You can contact Ramy through [1000.Days.Out](#) e .

Funded by the
Government
of Canada



ICTC is a not-for-profit national centre of expertise for the digital economy, we are the trusted source for evidence-based policy advice, forward looking research, and creative capacity building programs.