



**TORONTO PARKING AUTHORITY**

# AI-Powered Transformation

**Strategic Roadmap for Competitive Advantage**

Scott Collier, President  
Toronto Parking Authority Board of Directors  
October 16, 2025

# Agenda

1. Introduction
2. Artificial Intelligence Overview
3. Our Approach to Developing an AI Strategy



# Development of AI strategy is grounded in our ERM priorities

| #   | Key Risks                                 | 2025<br>Residual Risk | 2024<br>Residual Risk |
|-----|-------------------------------------------|-----------------------|-----------------------|
| 1   | Change in the City's Direction            | 20                    | 20                    |
| 2   | Cyber Security                            | 15                    | 15                    |
| 3   | Parking Equipment / Technology Management | 15                    | 10                    |
| 4   | Corporate Culture                         | 12                    | 12                    |
| 5   | Brand Value and Equity                    | 12                    |                       |
| 6   | Aging Parking Infrastructure              | 12                    | 12                    |
| 7   | Partnerships & Collaborations             | 12                    |                       |
| 8   | AI Strategy & Governance                  | 12                    |                       |
| 9   | Security / Vandalism / Theft              | 12                    | 12                    |
| 10  | TPA Parking Inventory Availability/Assets | 10                    |                       |
| 11  | Talent Attraction, Retention & Succession | 9                     | 9                     |
| N/A | Financial Sustainability                  |                       | 20                    |
|     | Outdated IT Infrastructure & Systems      |                       | 9                     |
|     | Data Ownership                            |                       | 6                     |
|     | Internal Scalability                      |                       | 6                     |

## Legend:

Green Text = New key risks in 2025

Red Text = Removed key risks from 2024

## Key Highlights

### New key risks in 2025

#### Brand Value and Equity

- There is an increased focus in developing, protecting, and marketing our brand to help grow the existing customer base and build new opportunities

#### Partnerships & Collaboration

- Strategic partnerships are critical to driving TPA's growth, TNG Bank partnership with BST has been successful and financially beneficial, and there is potential shareholder support for TPA to enter into a public-private partnership to build out the City-wide EV network

#### AI Strategy and Governance

- There is an opportunity for TPA to accelerate the adoption of AI to increase competitiveness and be at the forefront / lead AI from a Government-entity perspective. However, there is a lack of understanding of AI application and governance which may result in greater impacts in the mid-term

#### TPA Parking Inventory Availability/Assets

- There are shifting City priorities away from parking (e.g., housing, parks, CaféTO, cycling, etc.) while a strategic city-wide approach to parking remains in flux

### Removed key risks from 2024

#### Financial Sustainability

- There is a new income-sharing agreement

#### Outdated IT Infrastructure & Systems

- There have been a number of upgrades / replacements of legacy applications

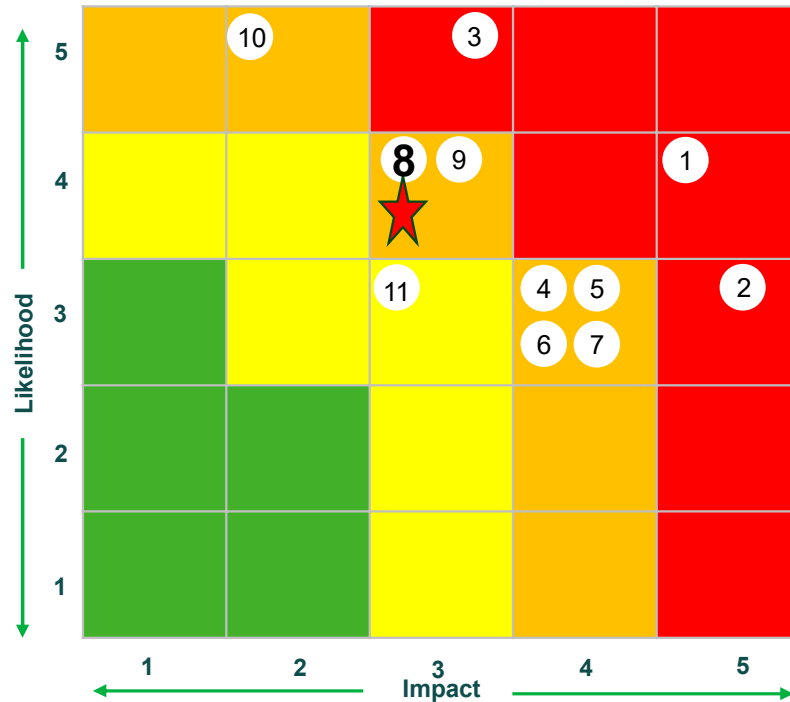
#### Data Ownership

- There have been initiatives providing greater access to data

#### Internal Scalability

- This is an outcome of other risks (e.g., outdated IT infrastructure & systems)

# AI strategy and governance has emerged as a major risk priority



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-----> = Change in residual risk rating

# Why are we here...

1. AI Strategy is an emerging risk because there is a lack of organizational literacy including concerns about oversight and 'shadow AI', which may lead to unintended consequences.
2. AI brings opportunities for the TPA to leverage Artificial Intelligence to drive productivity, value-creation and competitive advantages in the marketplace.
3. In partnership with the City of Toronto, our priority is to establish a framework and strategy to ensure the disciplined and thoughtful deployment of AI across the organization.



# Artificial Intelligence Overview

# Artificial Intelligence

## Definition

**Artificial means something made by humans, that is not found in nature. It is created to imitate, replace, or improve what nature provides.**



Example 1:  
**Sunlight (Natural)**

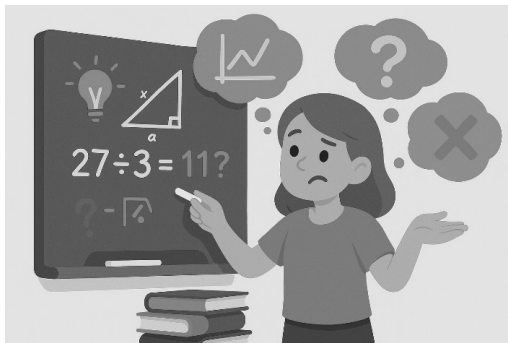


Example 2:  
**Lightbulb (Artificial)**

# Artificial Intelligence

## Definition

**Intelligence is the ability to perceive, comprehend, and learn from information in order to make good decisions.**



Example 1:  
**Guessing answers at random  
(nonrational)**



Example 2:  
**Solving a math problem  
correctly (Intelligence)**



# Artificial Intelligence

## Definition

**Artificial Intelligence (AI)** is human-made software that can perceive, comprehend, and make decisions like we do.



Example 1:  
**Human Intelligence**



Example 2:  
**Artificial Intelligence**

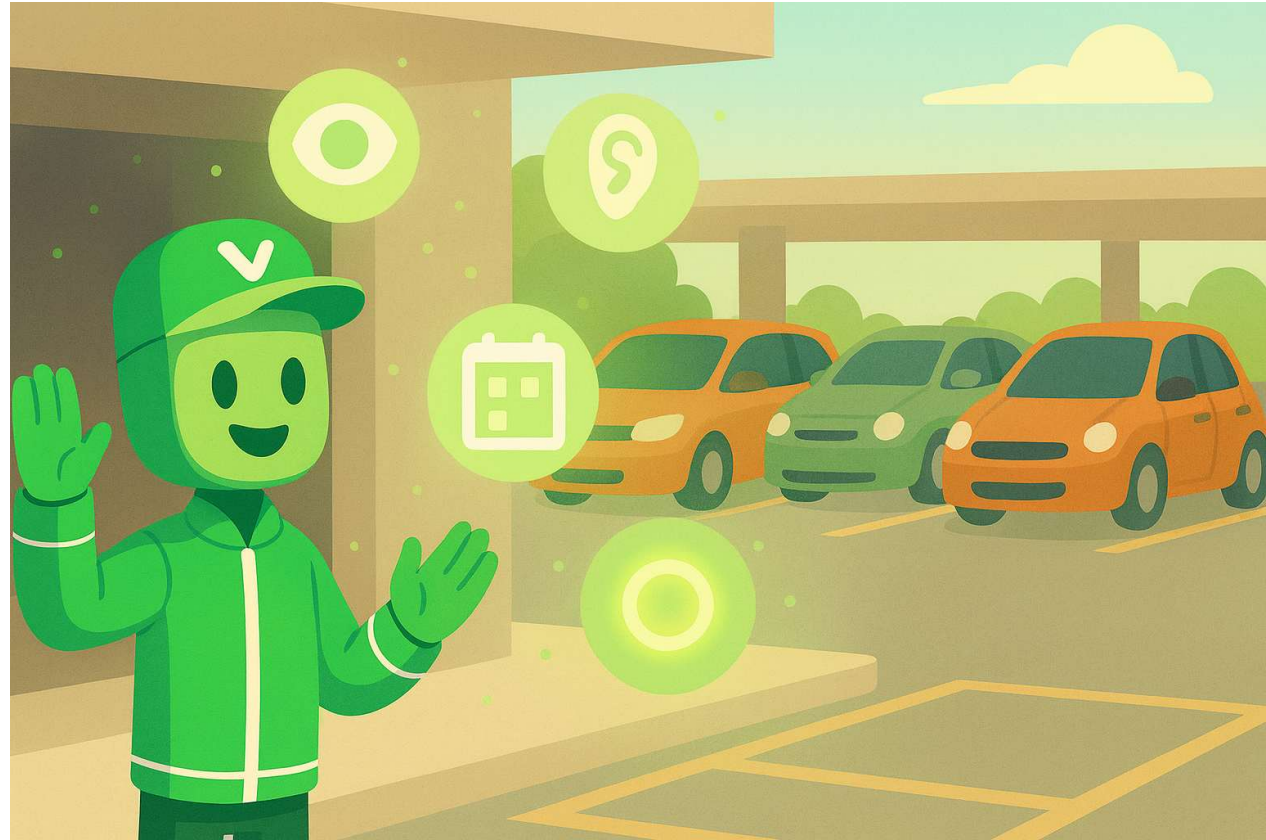
# AI Senses

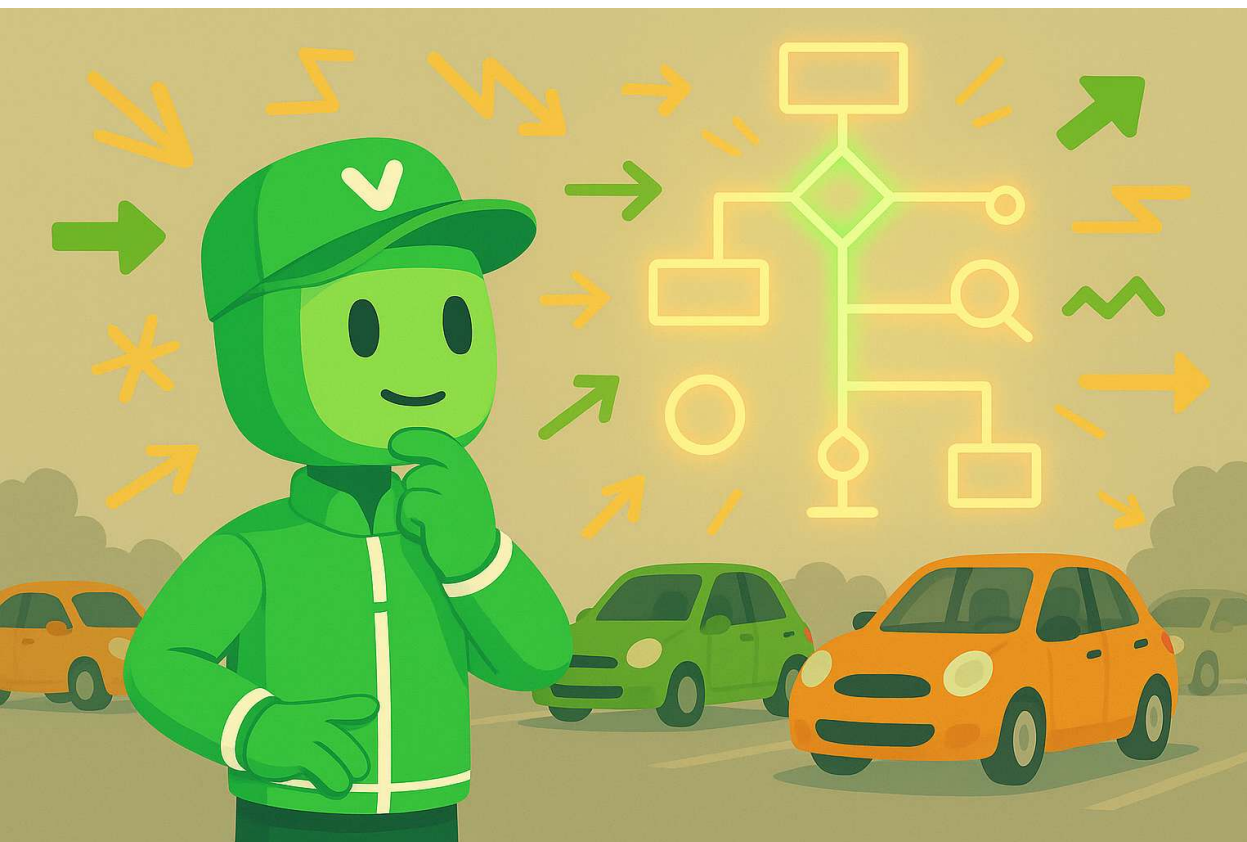
AI has digital senses, just like us, and just like a valet

- **Sees** → cameras, license plate readers, satellite/partner feeds
- **Hears** → customer inputs, app requests, voice
- **Feels** → sensors (space occupancy, curb activity, EV charger status).
- **Remembers** → arrival patterns, dwell times, payment history.

## Key Takeaway #1

AI gathers data from many sources.





# AI Decides

AI decides with rules & learning, just like a valet choosing the best spot

- **Processes** streams of sensor data in real time
- **Uses algorithms** to weigh options (closest, right-fit space)
- **Learns** from past patterns to improve decisions
- **Balances goals** such as revenue, fairness, convenience

## Key Takeaway #2

AI applies logic and learning to choose the best action.



# AI Acts

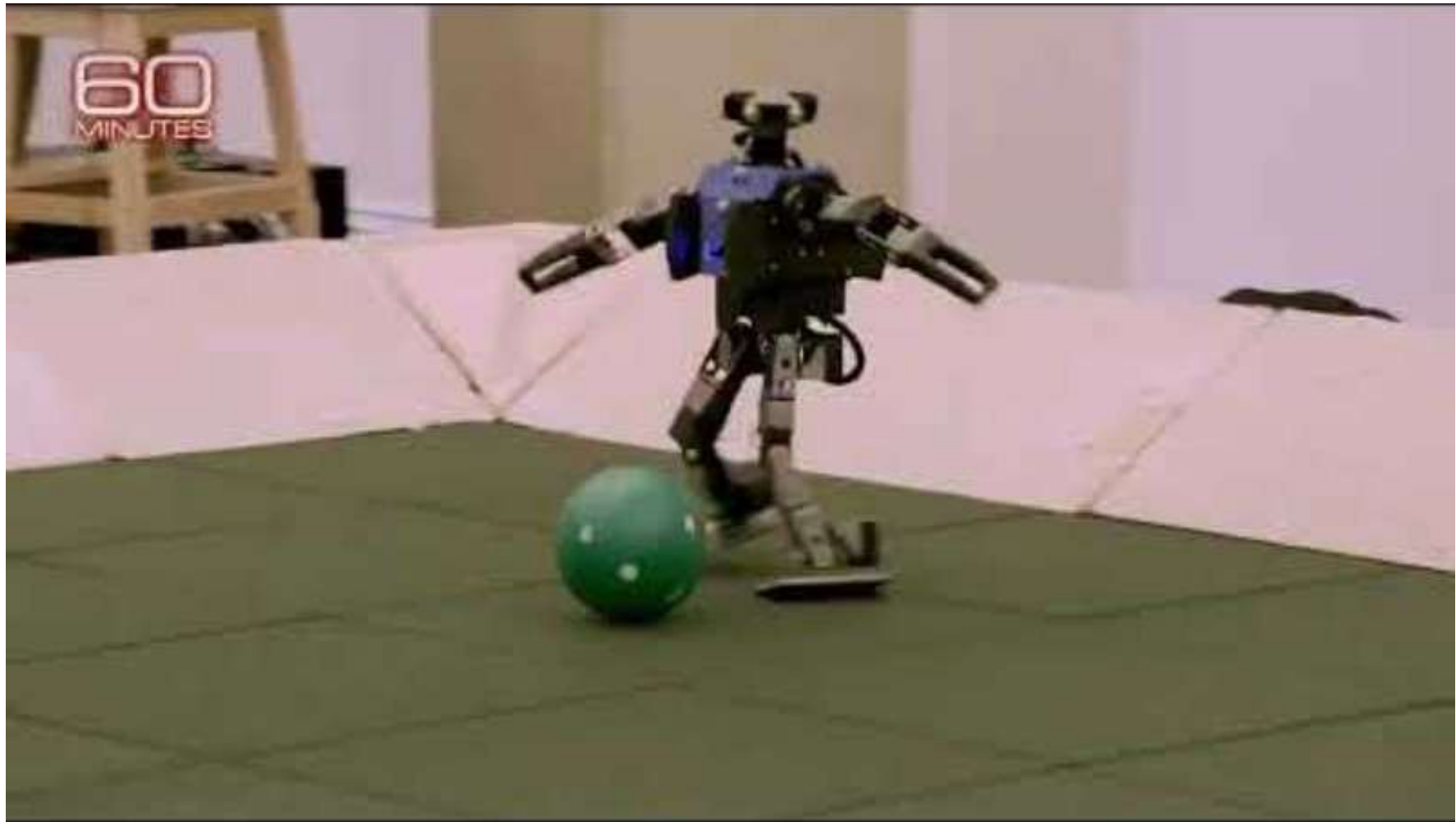
AI acts instantly and at scale. Like dozens of valets at once

- **Guides drivers:** navigation arrows to open space.
- **Automates billing:** session starts/stops seamlessly.
- **Sends nudges:** reminders before violations.
- **Triggers enforcement:** alerts when rules are broken.

## Key Takeaway #3

AI turns decisions into real-world actions automatically.







# Action Plan



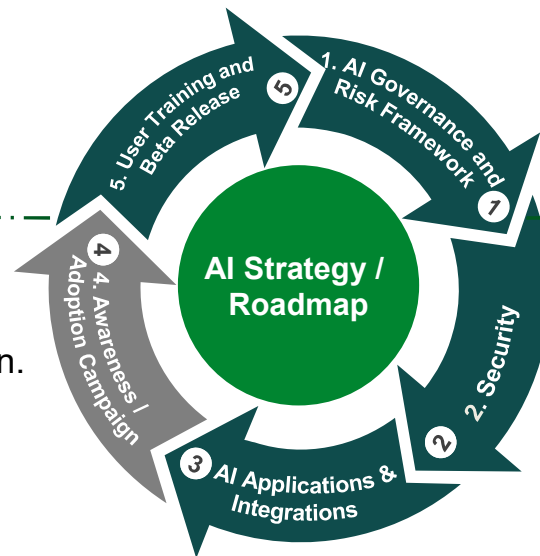
# Strong AI governance ensures Artificial Intelligence deliver measurable returns without compromising trust, values or compliance

## Step 5

- Beta Release.
- Accelerates user adoption and maximizes value.

## Step 4

- Awareness / Adoption Campaign.
- Drives organizational readiness through education and training.



## Step 1

- AI Governance and Risk Framework.
- Establish Key Principles.
- Emphasis on scalable policies, controls, and oversight.

## Step 2

- Ensuring responsible and compliant AI adoption.
- Security.

## Step 3

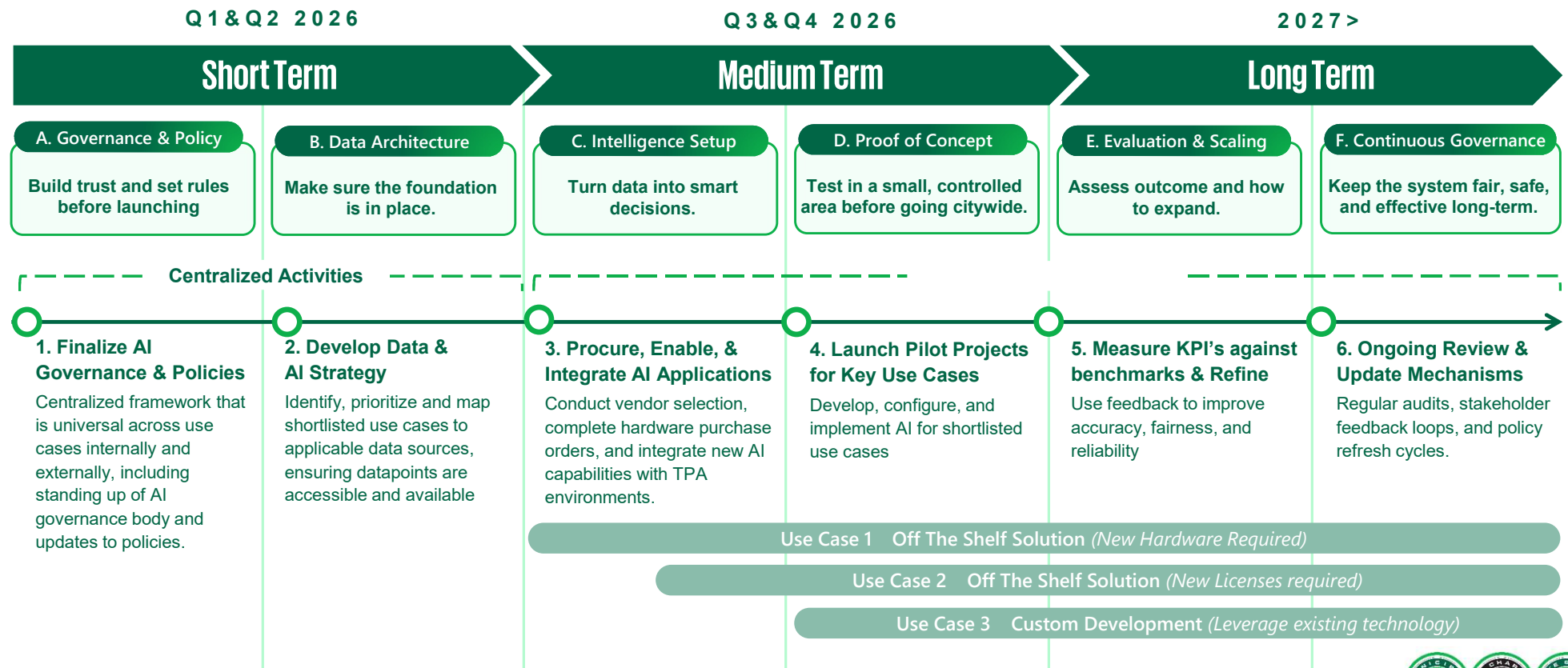
- AI Applications & Integrations.
- Includes prioritized use cases and implementation roadmap.

# Our roadmap to developing AI Strategy





# Our roadmap



**Thank you!**