

Alberta
recycling
MANAGEMENT AUTHORITY

OUR VISION

INSPIRING
A FUTURE
WITHOUT
WASTE

INSPIRING A FUTURE WITHOUT WASTE

WHO IS ARMA?

ARMA acts on behalf of the province to oversee all aspects of end-of-life processing of the following materials in our Stewardship Programs:

- **Electronics, Paint, Tires, and Used Oil Materials**

Oversight Authority for Extended Producer Responsibility (EPR):

- **Single-use Products, Packaging and Paper Products (PPP)**
- **Hazardous and Special Products (HSP)**

ABOUT US – STEWARDSHIP

- **5,300** registered suppliers and producers
- **27** recyclers
- **157** municipal and indigenous communities who manage **435** electronics, paint, tire, and used oil materials collection sites throughout the province.

WHAT WE DO – STEWARDSHIP

Working with a broad spectrum of stewardship stakeholders, we:

- Are an educator, innovator, leader, and business developer
- Shape recycling policy
- Minimize waste entering the landfill
- Create a value-added processing system in respect of the circular economy
- Act as collective stewards of Alberta's environment, reporting our results to the Minister of Environment and Protected Areas and stakeholders

WHAT WE DO – EPR

Working with a broad range of collectors and processors:

- Oversight Authority
- Bylaws
- Assist, guide, and educate processors and municipalities
- Provide innovative, efficient and effective methods of supporting and achieving compliance

OUR IMPACT

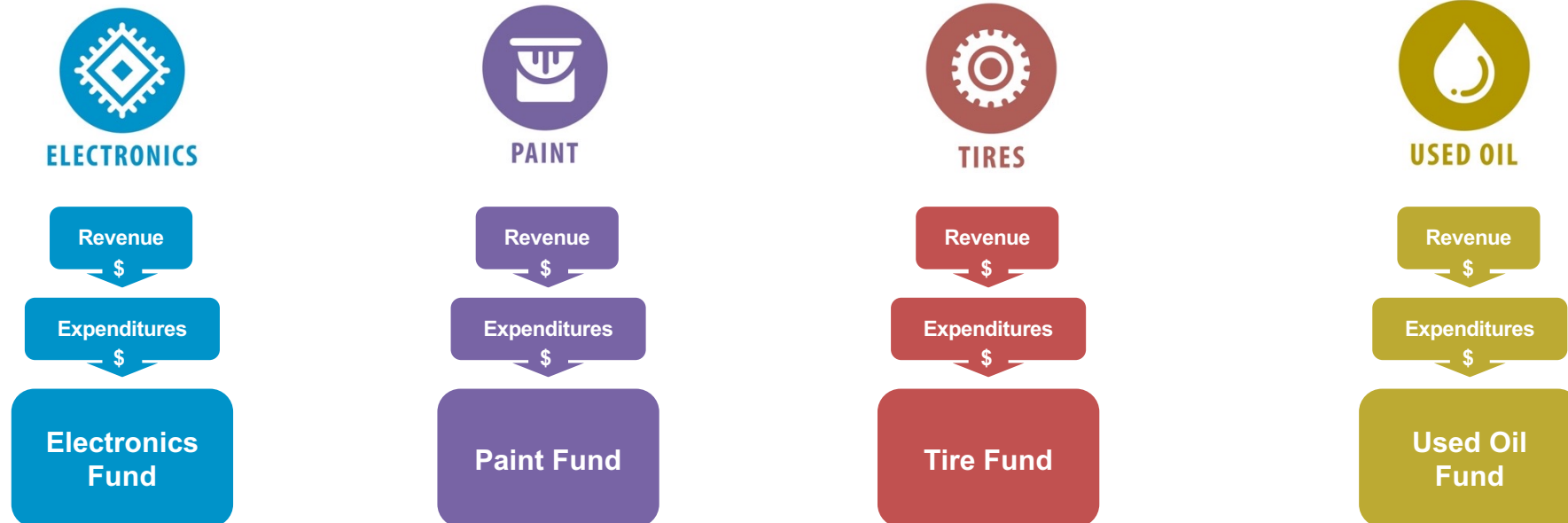
- Alberta's recycling sector contributes nearly **\$1 billion** annually to Alberta's GDP and approximately **7,500 direct jobs**.
- The specific contribution of ARMA's stewardship programs
 - **1,570 FTE across four programs**
 - **\$180 million Gross Value Added (GVA)**
- EPR will help us better manage single-use plastics and other recyclable materials, and **reduce greenhouse gas emissions by about 72,000 tonnes a year**.

ENVIRONMENTAL FEES – STEWARDSHIP

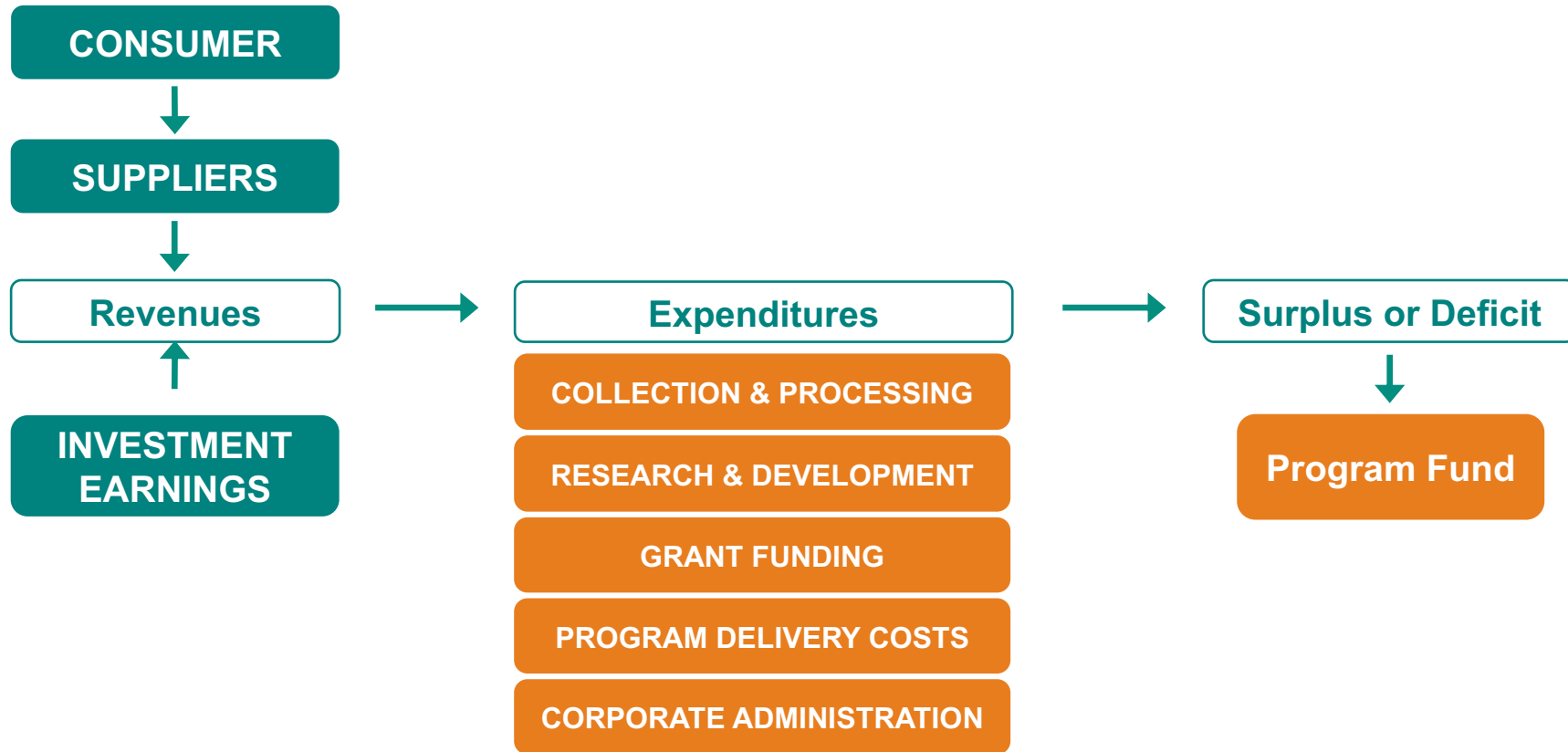
- The Regulations lay out the guidelines for eligible products that can attract an environmental fee.
 - Changes require regulatory adjustments.
- Since December 2019, fees are defined in ARMA bylaws.
 - Can be changed through a consultation process and resulting notice to / approval from the Minister

REGULATION – SEGREGATION OF FUNDS

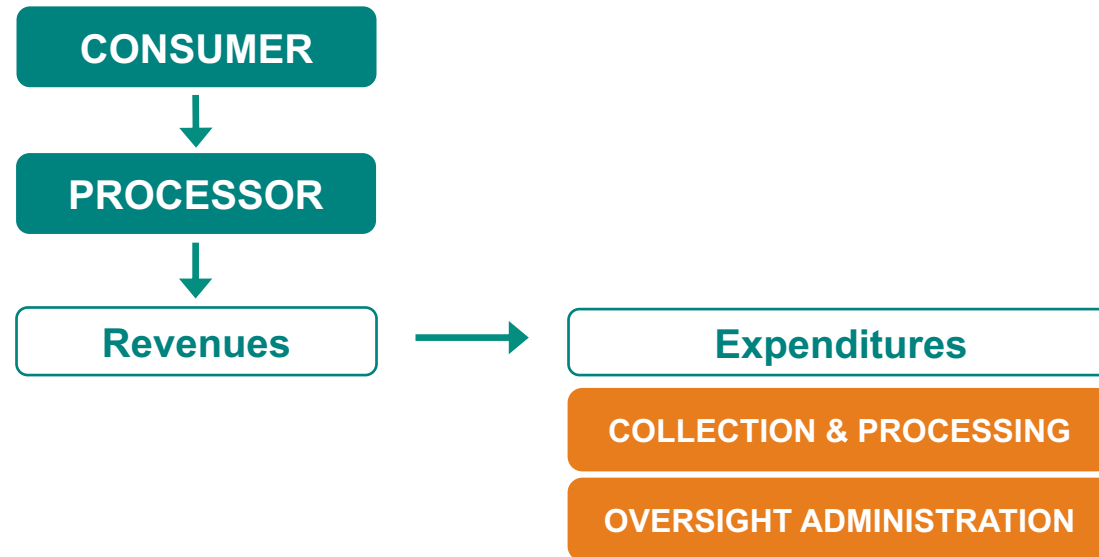
- Regulation requires that the funds for each stewardship program be kept separate and that funds cannot be moved between them.



HOW FEES SUPPORT STEWARDSHIP



HOW FEES SUPPORT EPR



TIRE RECYCLING PROGRAM

- Stewardship Program Started in 1992
- Passenger and Light Truck Tires (PLTT)
- Specialty, Industrial, and Other (SIO)
- Medium Truck Tires (MTT)
- Off The Road Tires (OTR)
- Bicycle Tires



66,308 TONNES
OF TIRES IN 2021/22

TIRE RECYCLING PROGRAM

- Tires are run through a shredder
- Drainage material in municipal landfills, replacing expensive washed rock (TDA)
- Mulch for landscaping
- Sidewalk blocks, matting products, and roofing tiles
- Playground surfaces





13,171 TONNES

OF ELECTRONICS IN 2021/22

Includes ePilot material

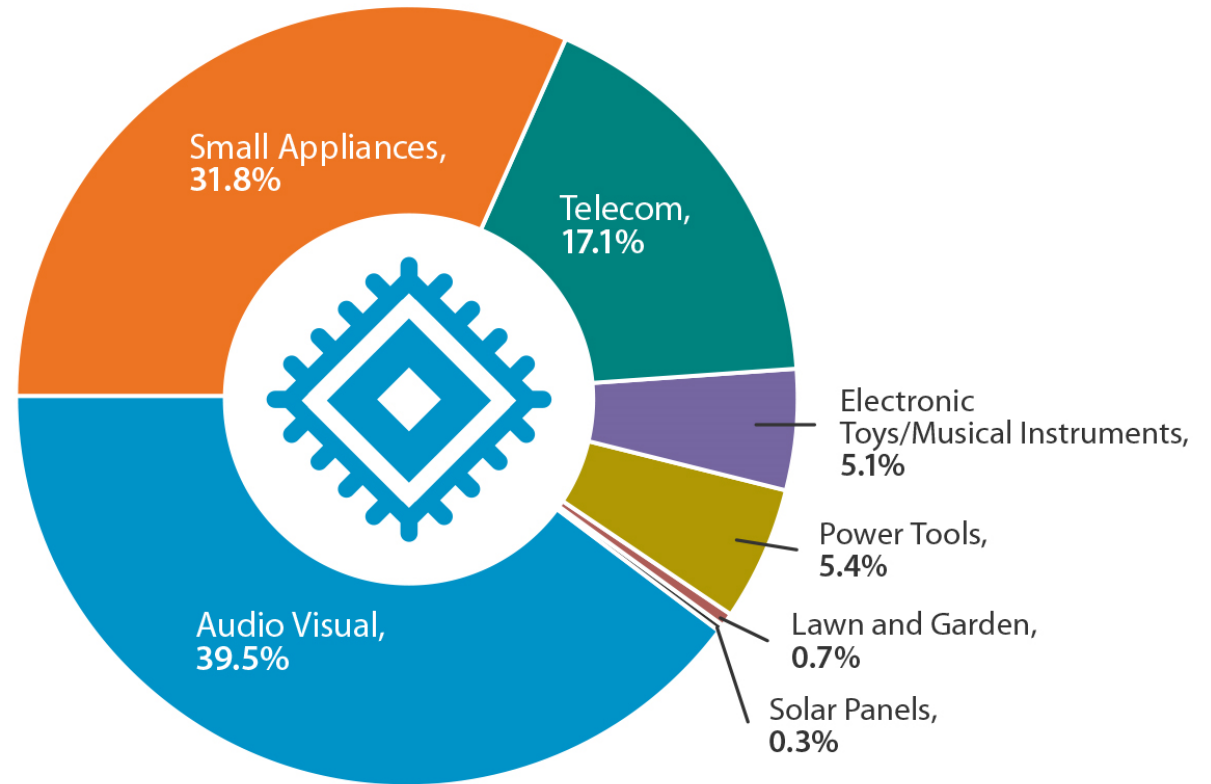
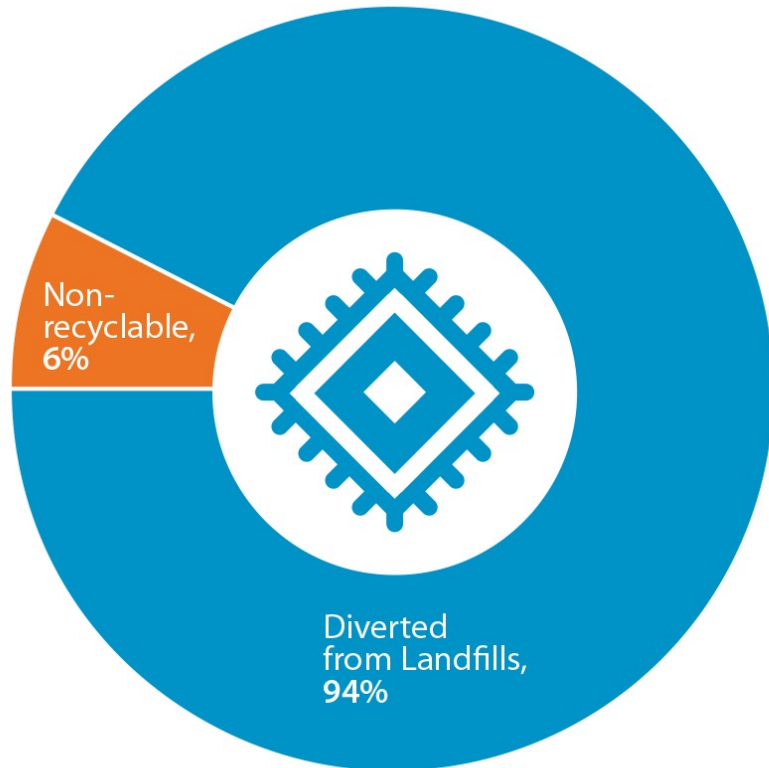
**THE FIRST ELECTRONICS RECYCLING PROGRAM
IN CANADA**

ePILOT

- Electronics are one of the fastest-growing waste streams in the world
- The program quickly fell behind other provinces
- ePilot launched in 2020
- Includes an additional 500 different types of electronics



E-WASTE RECYCLING EXAMPLES

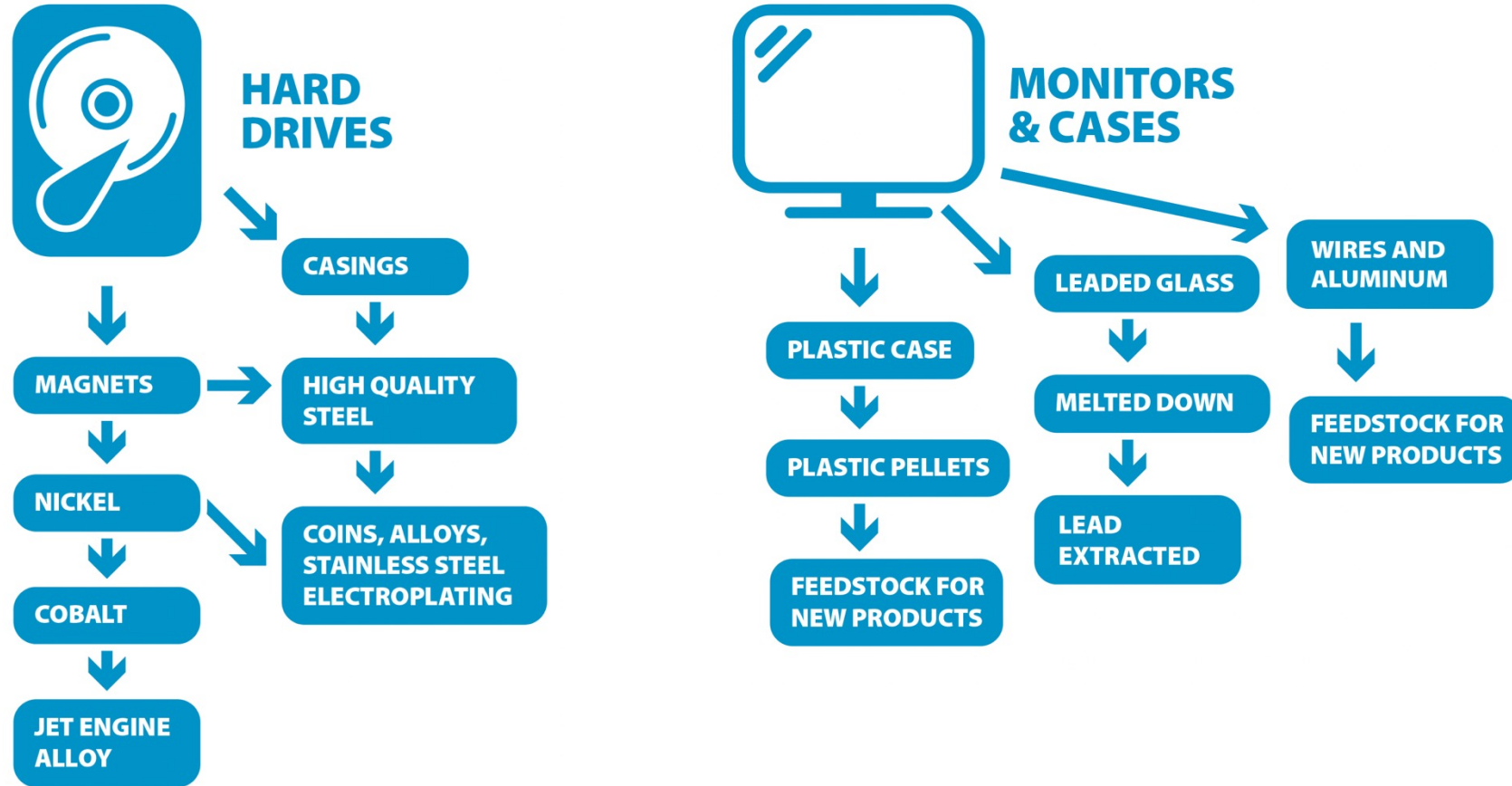


HOW ELECTRONICS ARE PROCESSED



STEWARDSHIP: ELECTRONICS
INSPIRING A FUTURE WITHOUT WASTE

E-WASTE RECYCLING EXAMPLES



SOLAR PANELS

- Decommissioned and damaged units are shipped, processed, and recycled
- Reaching out to other provinces



90%
RECYCLABLE
BY MASS**

SOLAR PANEL TESTING

- Undamaged panels are tested and marked for potential reuse



PAINT RECYCLING PROGRAM

- Stewardship Program Started in 2008
- Paint, Spray Paint, and Empty Paint Cans
- Includes: Latex (water-based), and non-latex paint material (oil-based, stains, varnishes, lacquers, mineral spirits, paint thinners, primers, sealers, undercoats, wood preservatives, deck cleaners, and paint strippers).





2.46 MILLION LITRES

OF PAINT IN 2021/22

651,743 UNITS

OF AEROSOL CANS

PAINT RECYCLING PROGRAM

- Latex paint can be recycled into new paint
- Oil-based paint can be used in fuel blends for alternative fuel sources
- Metal and plastics used in containers are recycled





78 MILLION LITRES

OF OIL IN 2021/22

3.98 MILLION KGS

OF FILTERS

2.11 MILLION KGS

OF CONTAINERS

USED OIL & MATERIALS RECYCLING

- The stewardship program started in 1997 and was taken over by ARMA in 2018
- Used Lubricating Oil
- Oil Filters
- Oil Containers

USED OIL & MATERIALS RECYCLING

- High-quality used oil is re-refined into new lubricating oil
- Lower-quality oil is processed into heating fuels
- Oil Filters are crushed
- Plastic containers are pelletized



HOUSEHOLD HAZARDOUS WASTE (HHW)

- HHW manages Toxic, Flammable, Corrosive, and Reactive Products generated from households
- April 2021 – March 31 2022, saw **578,413 Kg.** of HHW material safely disposed of and **495,871 aerosol cans** recycled

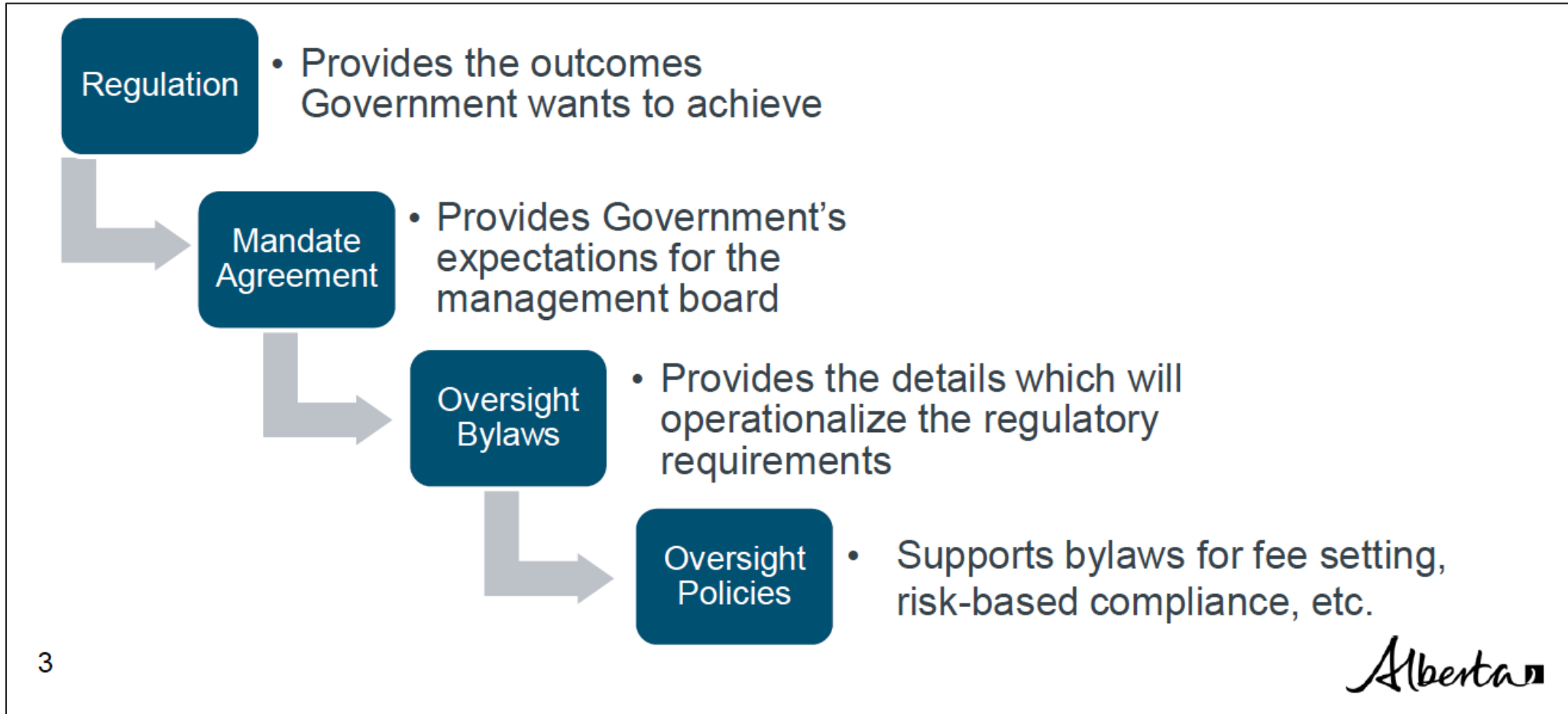


EXTENDED PRODUCER RESPONSIBILITY

- On October 3, 2022, it was announced that ARMA would be the oversight body for the province's Extended Producer Responsibility (EPR) regulation.
- Supports two product streams:
 - Single-use Products, Packaging and Paper Products (PPP)
 - Hazardous and Special Products (HSP)

EPR has no impact on our existing stewardship programs.

OVERSIGHT FRAMEWORK

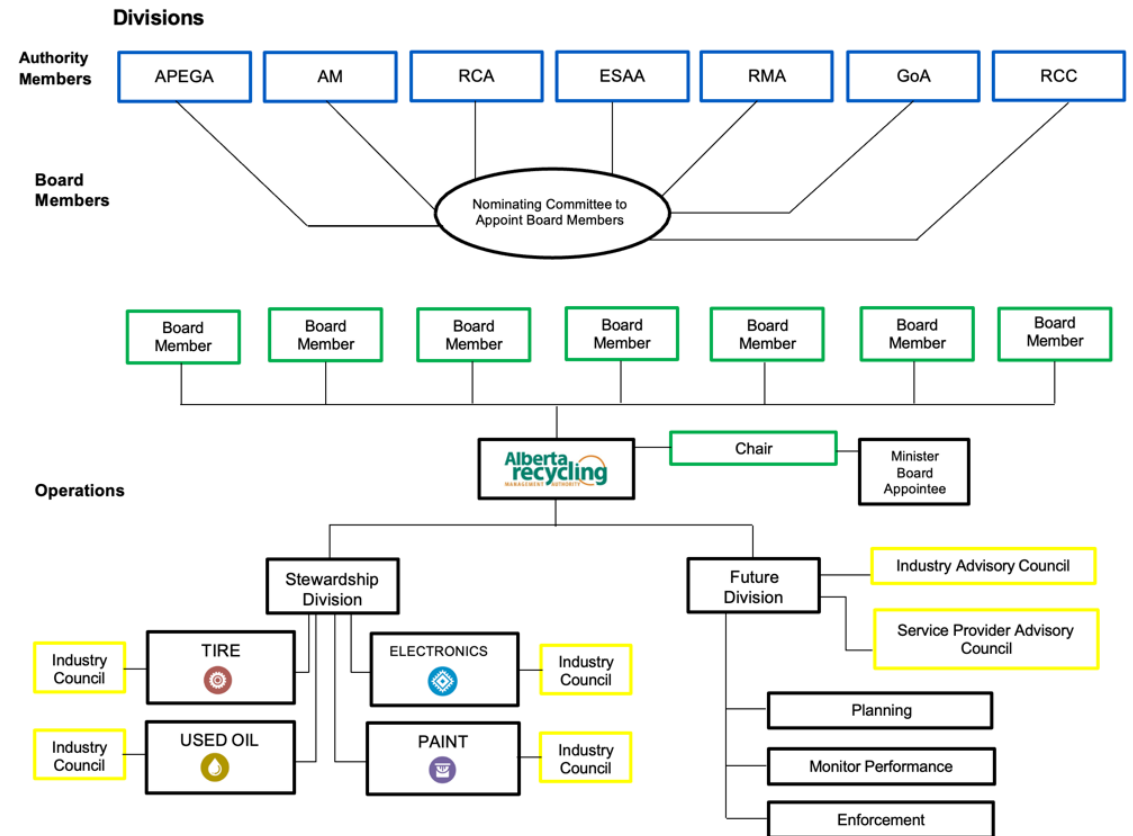


OUR EPR APPROACH

- We are charting a made-in-Alberta approach that works for our provincial landscape, inspired by what's working in other jurisdictions.
- By working closely with producers and PRO's, processing facilities, and community authorities, we're confident we will create a system that works for Albertans.
- Our goal is to minimize red tape and unnecessary processes.

WHAT WE'VE ACCOMPLISHED SO FAR

- Shift from operational board to a skills-based, governance board
 - Installed a nominating committee to identify the most suitable members
 - Established Qualifications and Eligibility Criteria
 - Created a Skills Matrix



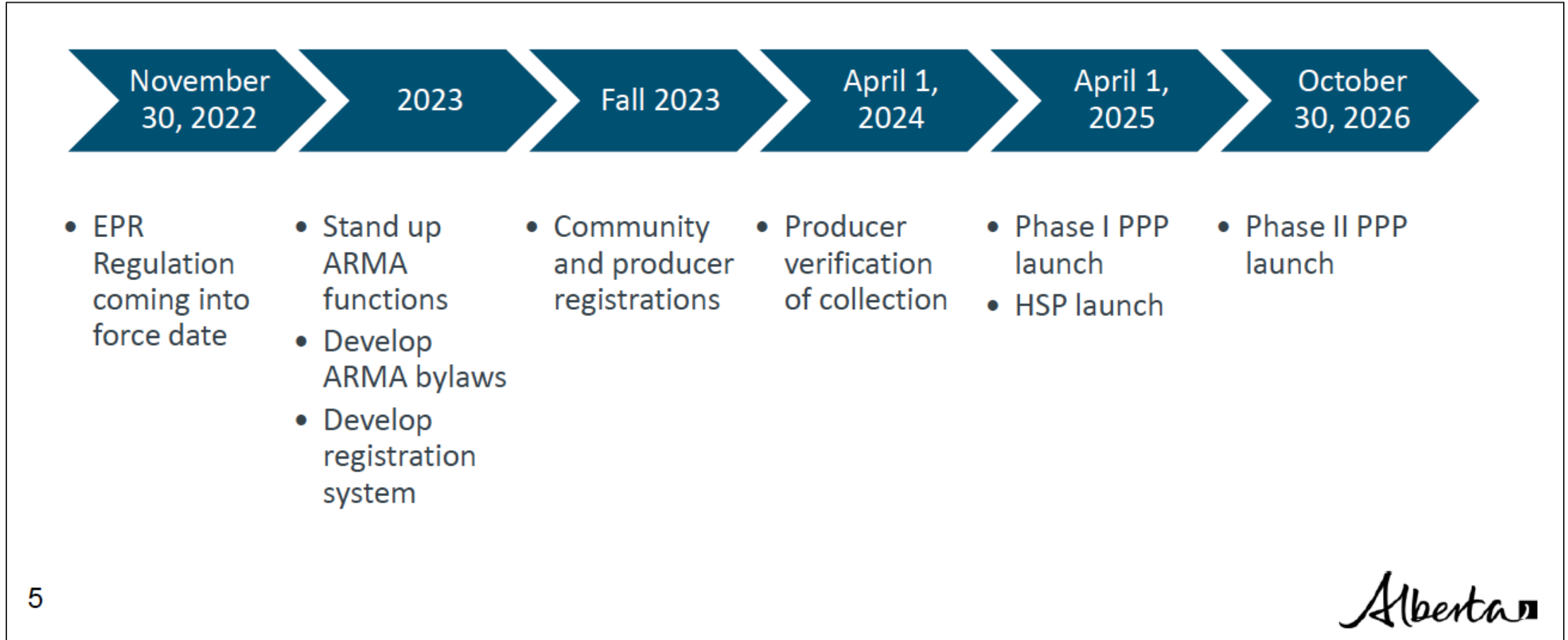
WHAT WE'VE ACCOMPLISHED SO FAR

- Infrastructure:
 - Foundation for IT registry is built – needs to be adapted for integration of EPR
- EPA/ARMA Transition Committee and associated Terms of Reference
- GoA developed draft model bylaws

WHAT WE'VE ACCOMPLISHED SO FAR

- Negotiated and executed an Agreement on Administration and Oversight on April 26, 2023
- Successfully secured financing to support the standup of EPR
- Retained subject matter experts in EPR
- Recruited an Executive Director for EPR Oversight standup

KEY TRANSITION DATES



THANK YOU!

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