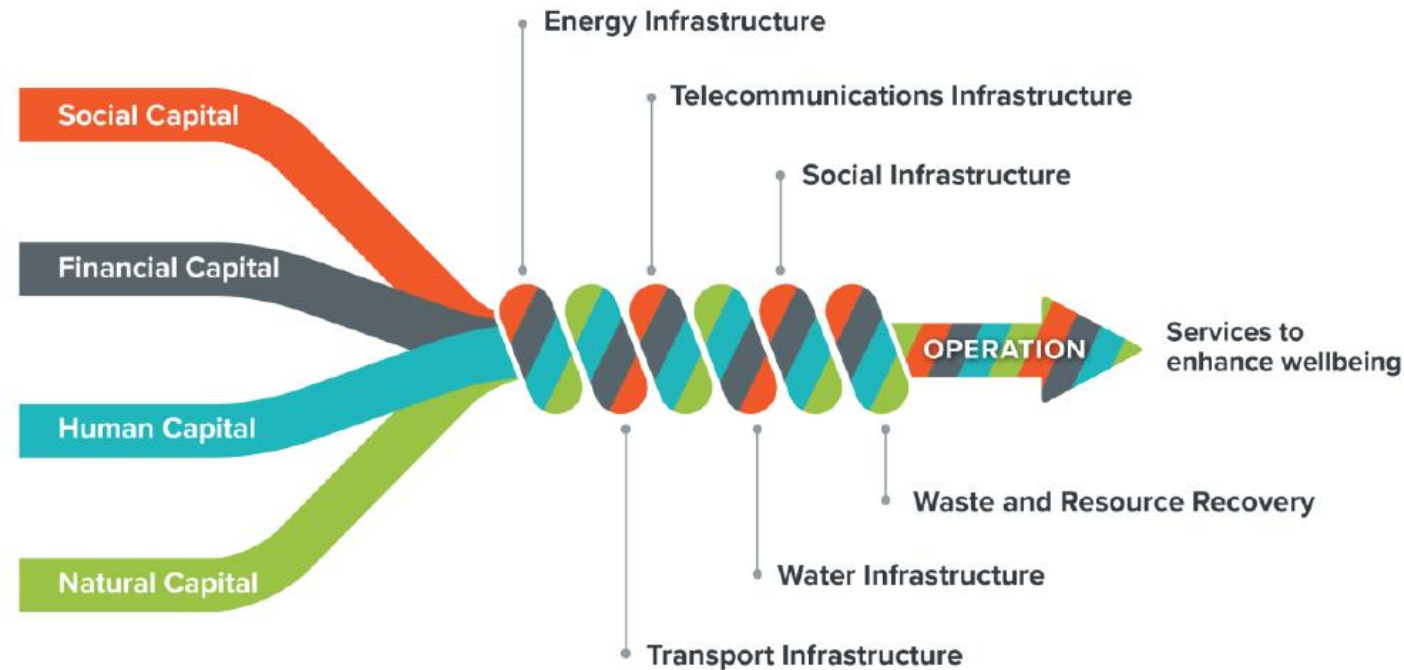

Waste Not, Want Not: Efficient Infrastructure Planning and Delivery

11 June 2025

Darren Tiddy

What is infrastructure?

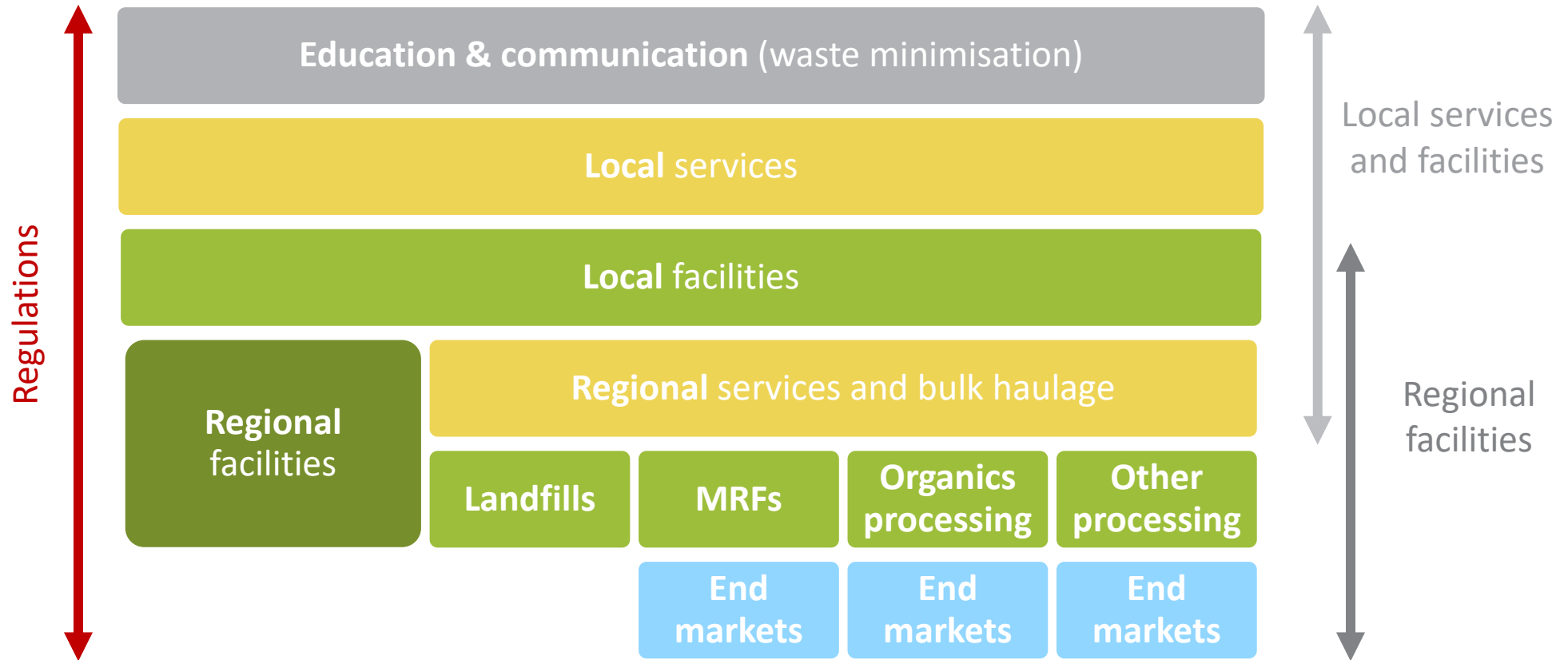


“A system of inter-connected physical structures that employ capital to provide shared services to enhance wellbeing.”

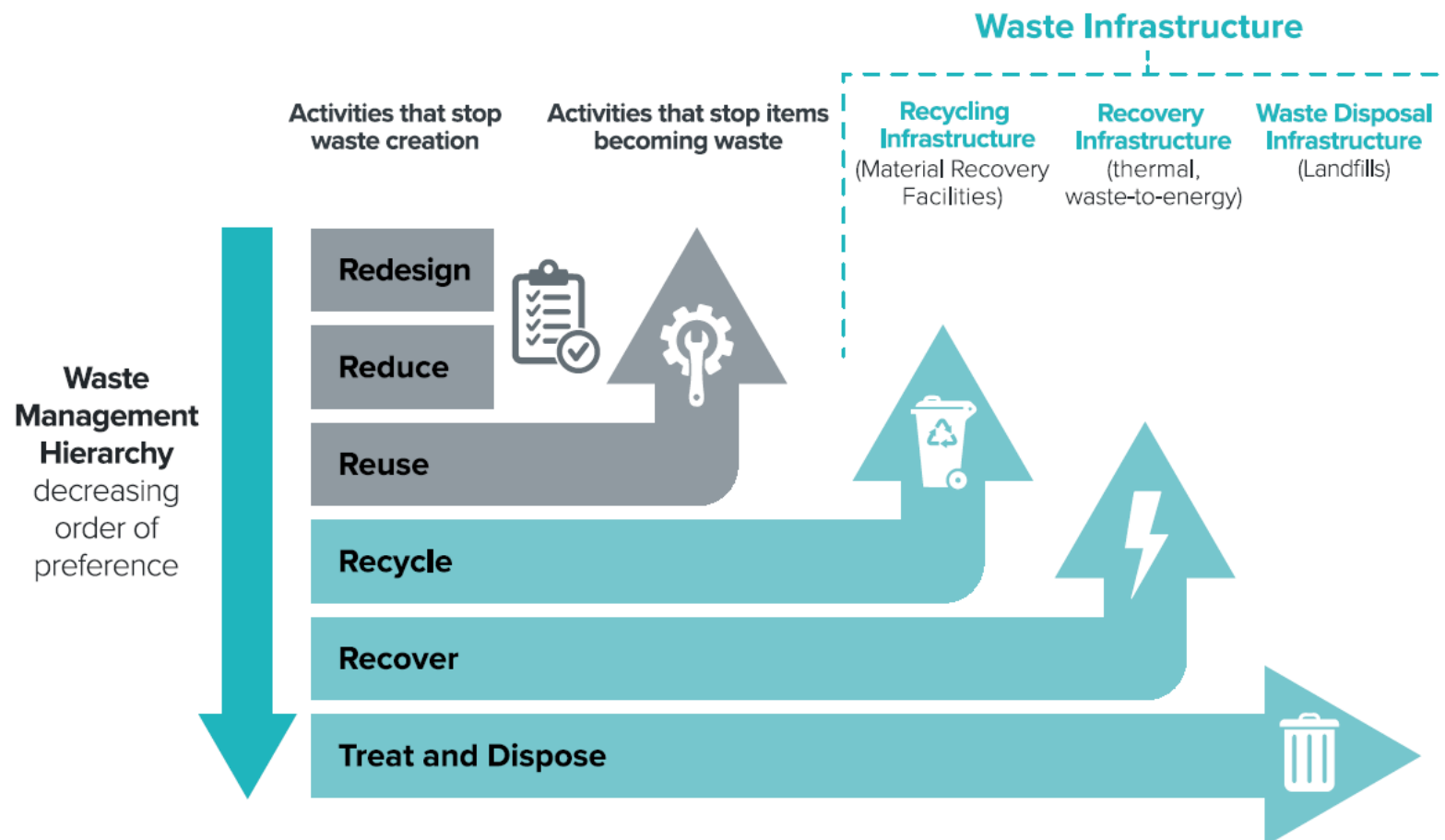
Te Waihangā's definition of infrastructure

New Zealand Infrastructure Commission Te Waihangā. Infrastructure under one roof, from: <https://tewaihangā.govt.nz/our-work/research-insights/infrastructure-under-one-roof>

Types of waste & resource recovery infrastructure



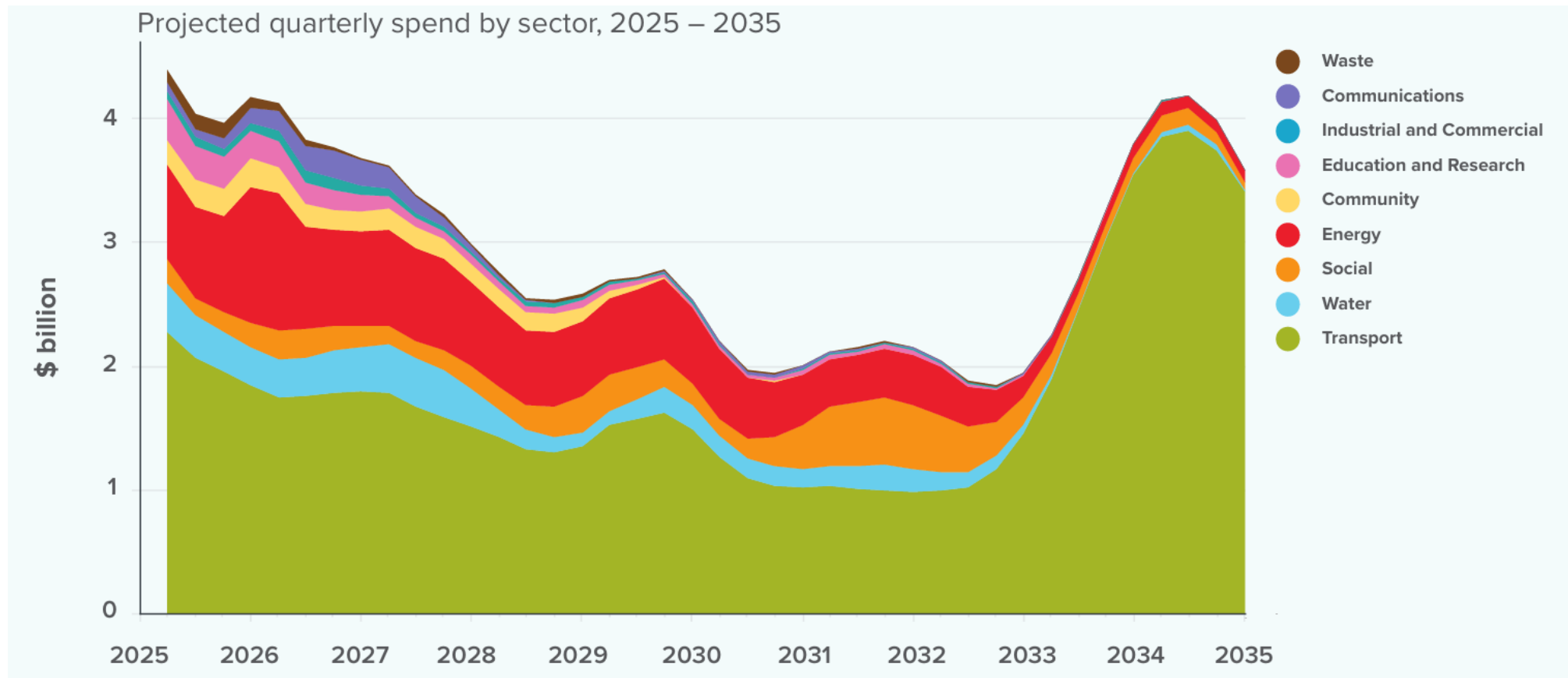
National infrastructure strategy



Source: Te Waihangā, adapted from Waste Minimisation Act (2008) and Auckland Council (2018)



Infrastructure pipeline



National waste strategy

These are the outcomes we want to achieve



Reduction of
waste disposal
per person



Increasing reuse
and recycling of
materials and
products so that
we retain valuable
resources in the
economy



Minimising
emissions and
environmental
harm from waste
and litter¹



Ensuring resource
recovery and
disposal facilities
are managed to
minimise their
environmental
impacts



Limiting the
environmental
harm caused by
contaminated
sites including
legacy sites

¹ Including, where relevant, consideration of impacts not just associated with disposal.



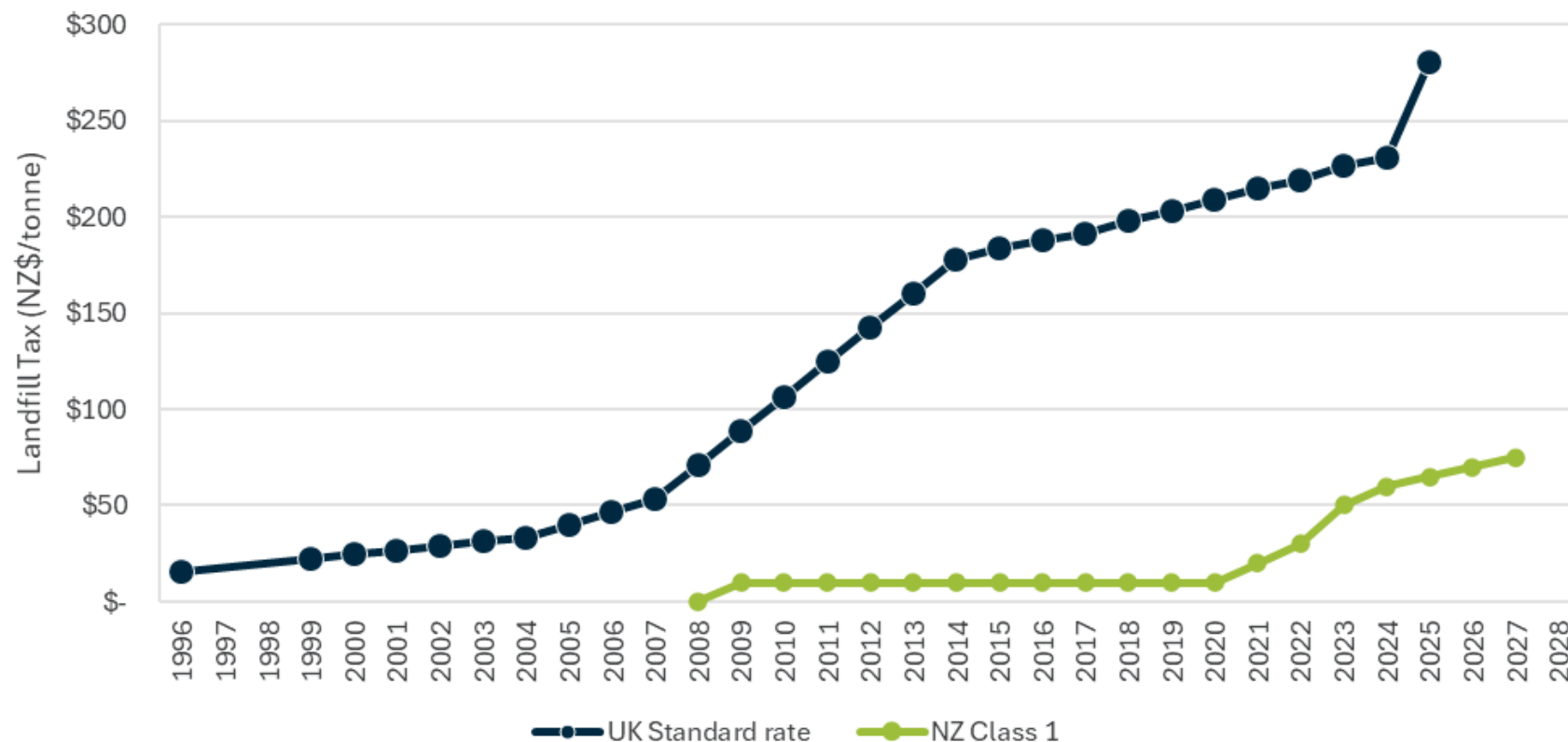
State of play



MfE: Ngā wāhi para me te tukunga | Waste facilities and disposal

Te Waihangā. Sector state of play: Resource recovery and waste
MfE (2020) Report on Waste Disposal Levy Investment Options, by Grant Thornton

Waste Disposal Levy



How do we currently plan?

Central government planning framework

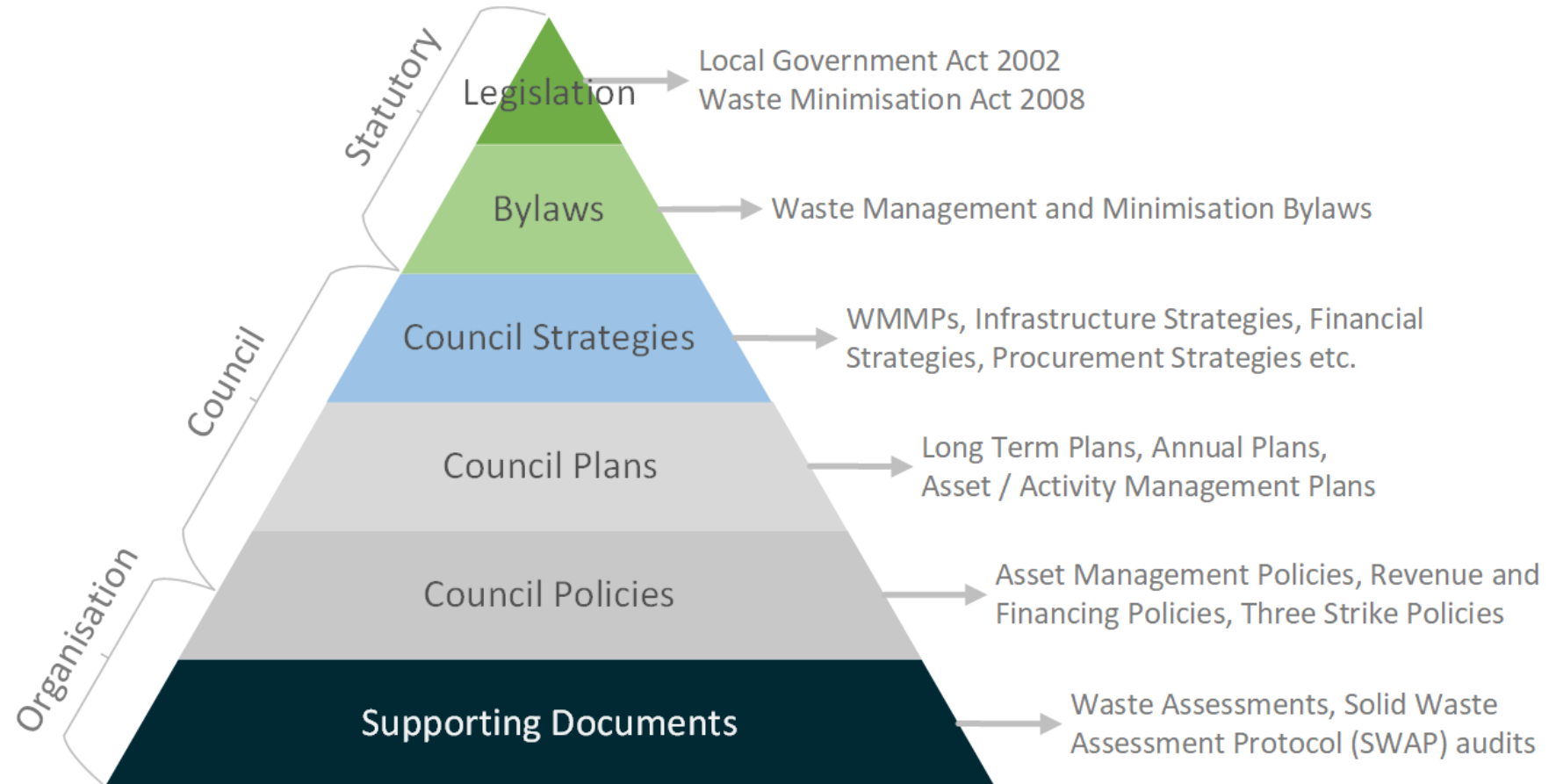
Waste and Resource Efficiency Strategy

National Infrastructure Strategy

National Infrastructure Plan

Emissions Reduction Plan

Local government planning framework



**There's a national directive and
financial support...
So why cant we just get on with it...**

That is not to say we are without challenges

Complexity

A plan alone
isn't enough

Work the plan

Data
deficiency

Policy
uncertainty

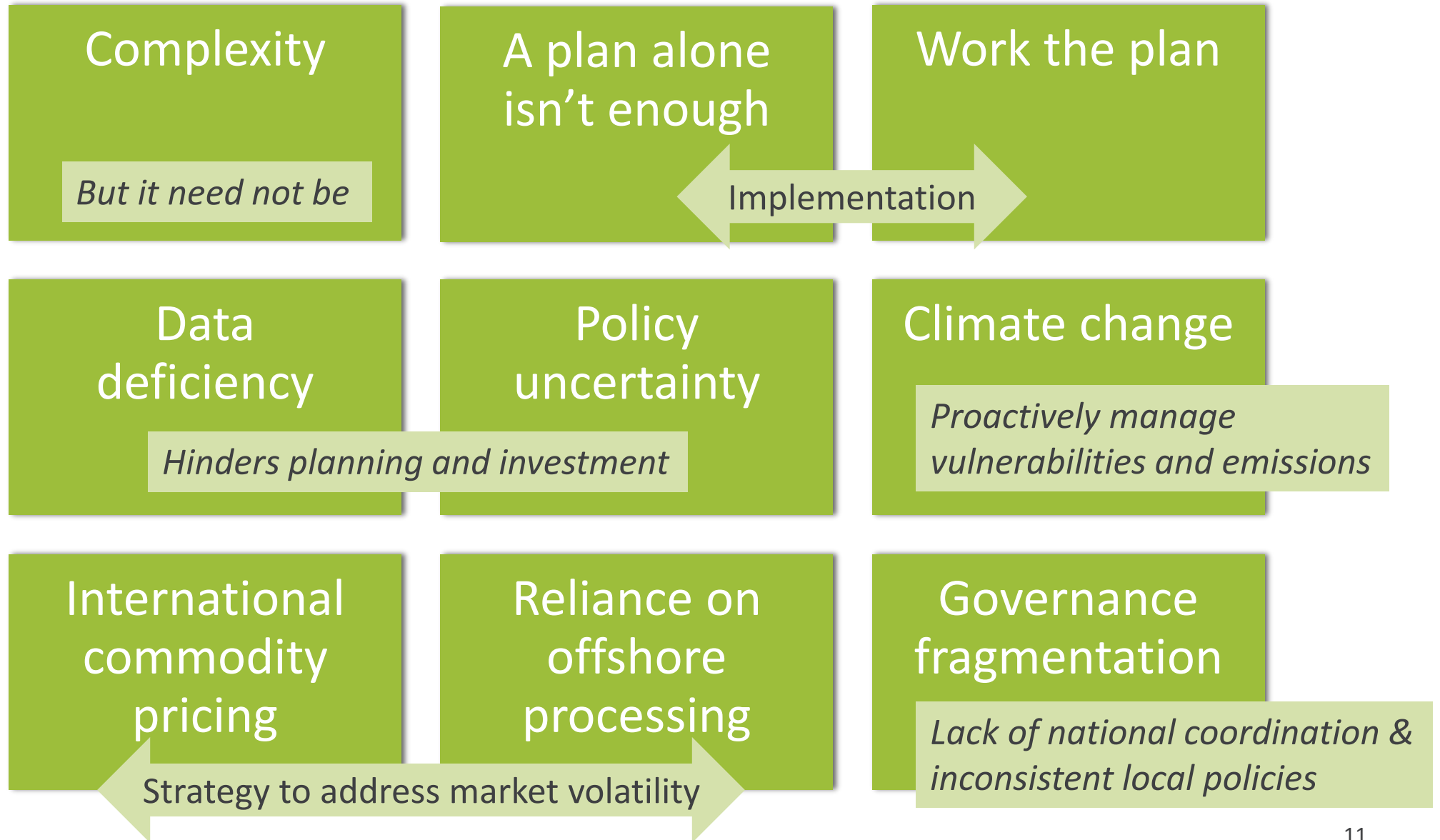
Climate change

International
commodity
pricing

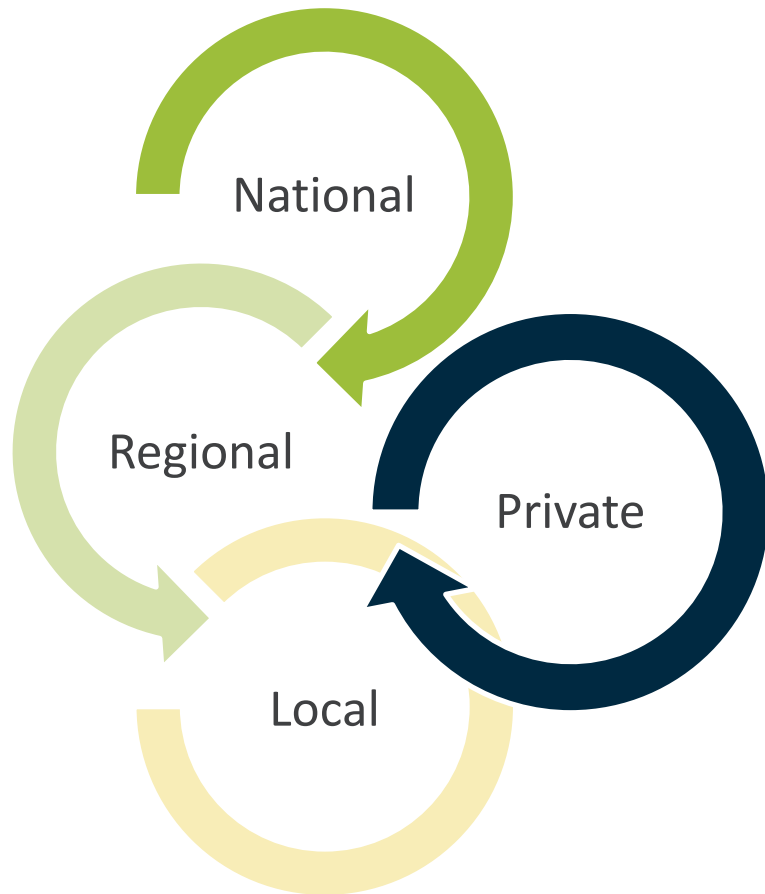
Reliance on
offshore
processing

Governance
fragmentation

That is not to say we are without challenges

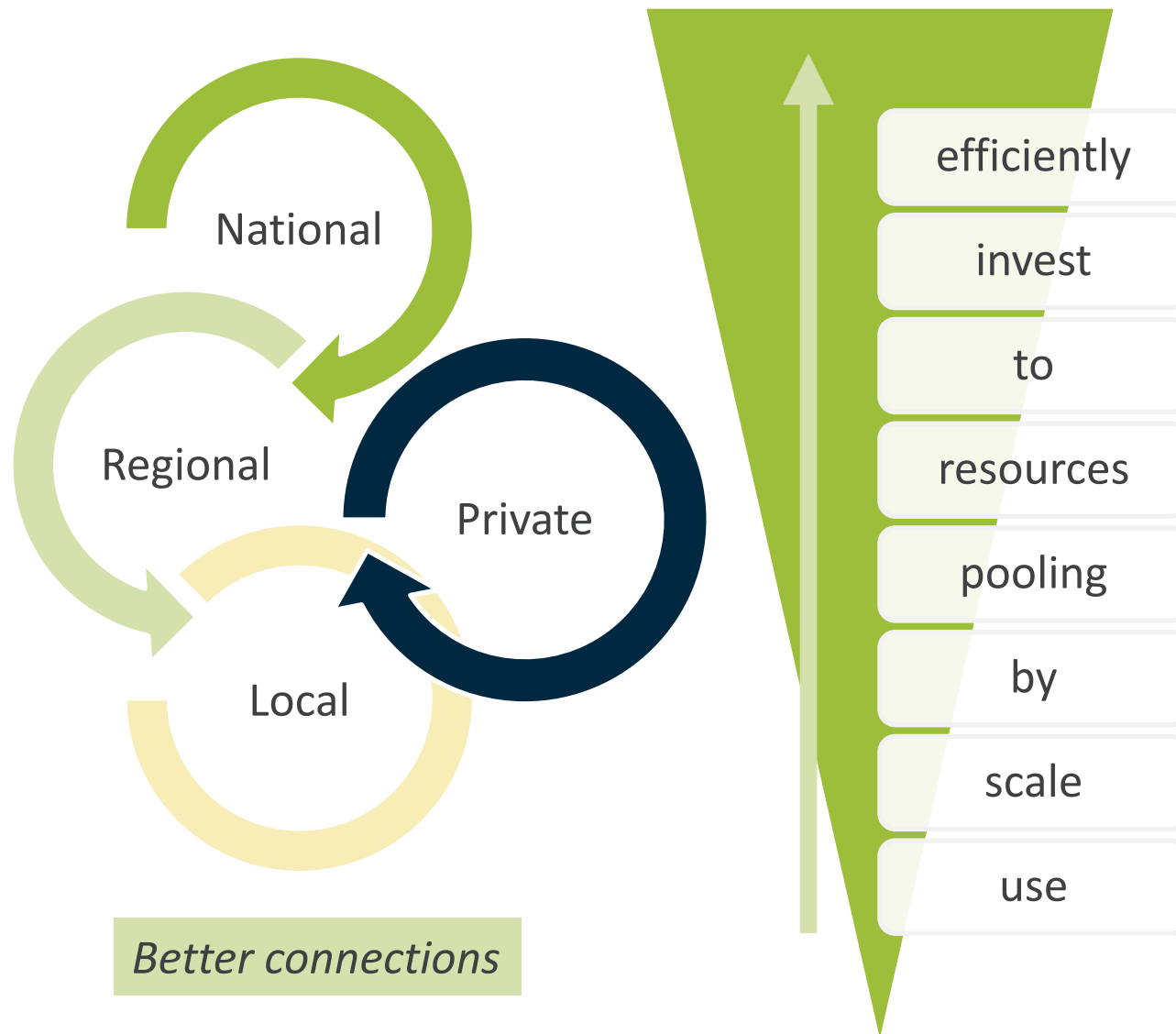


Where could efficiencies come from?

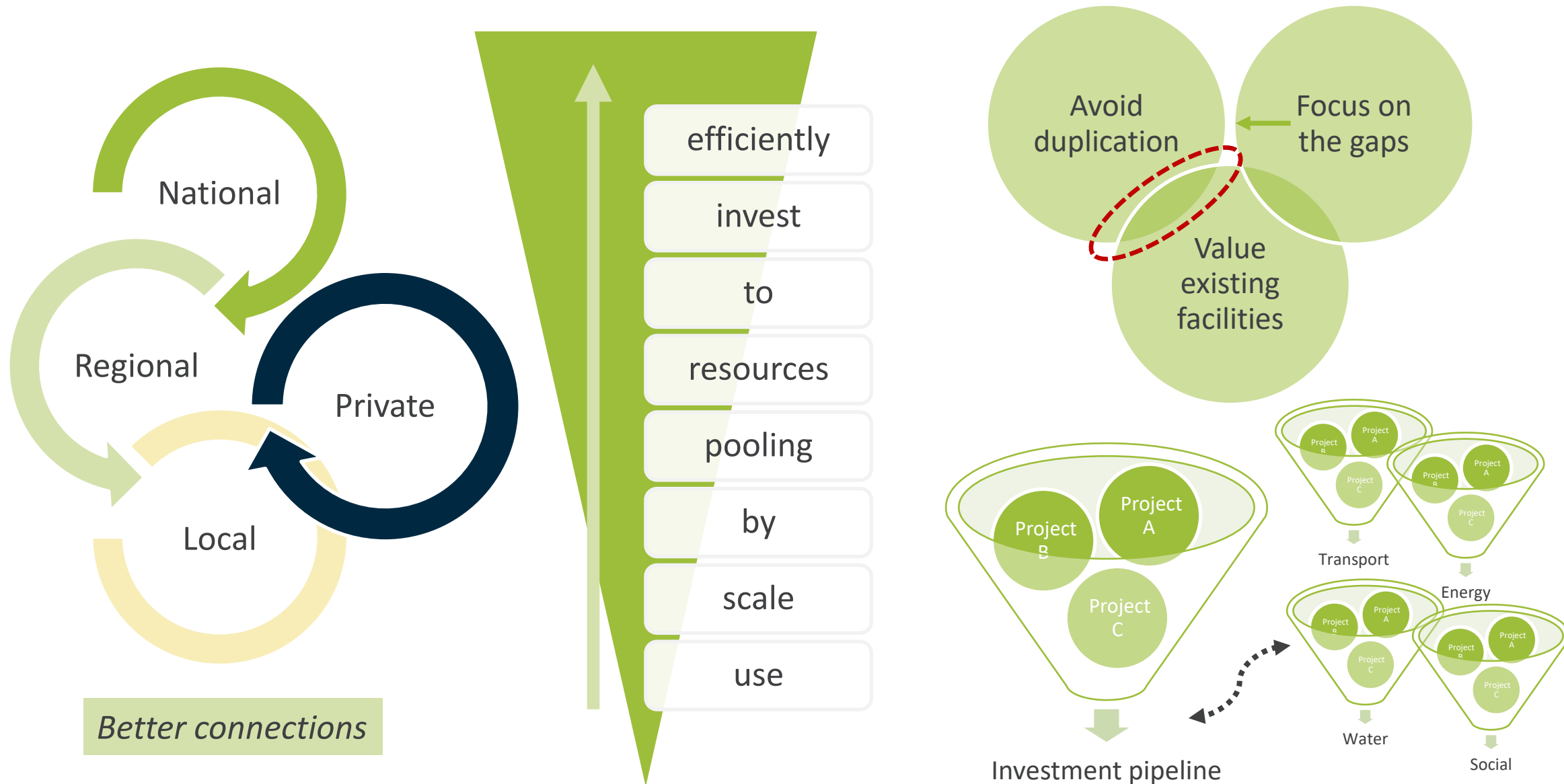


Better connections

Where could efficiencies come from?



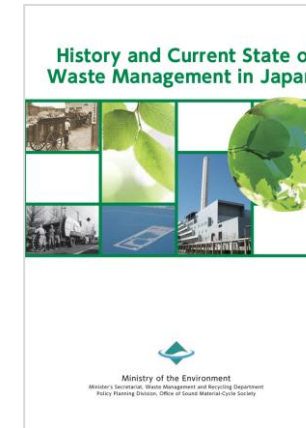
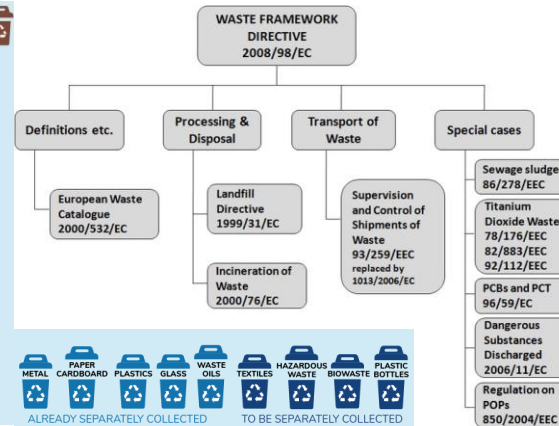
Where could efficiencies come from?



International examples



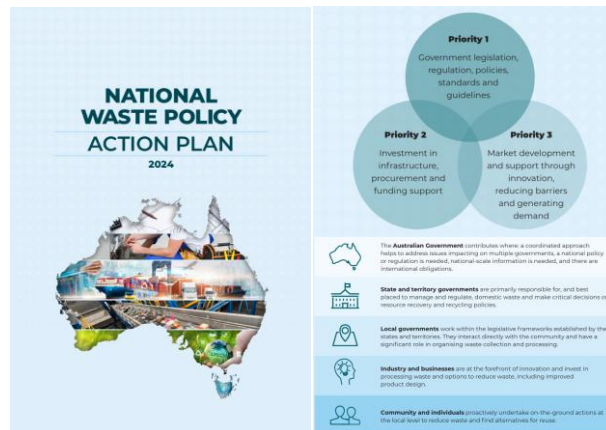
European Union
European Environment Agency



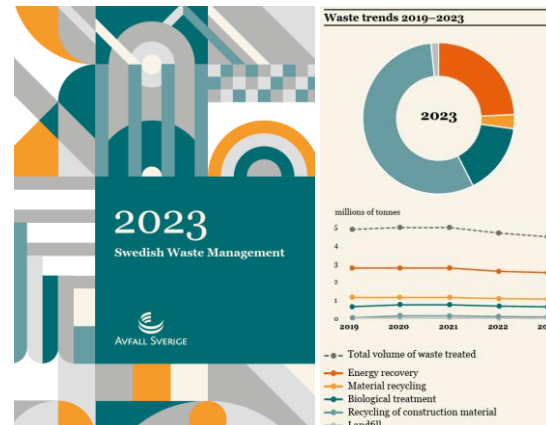
Japan Government
Waste Management and Recycling
Department, 3R policy



Singapore Government
National Environment Agency



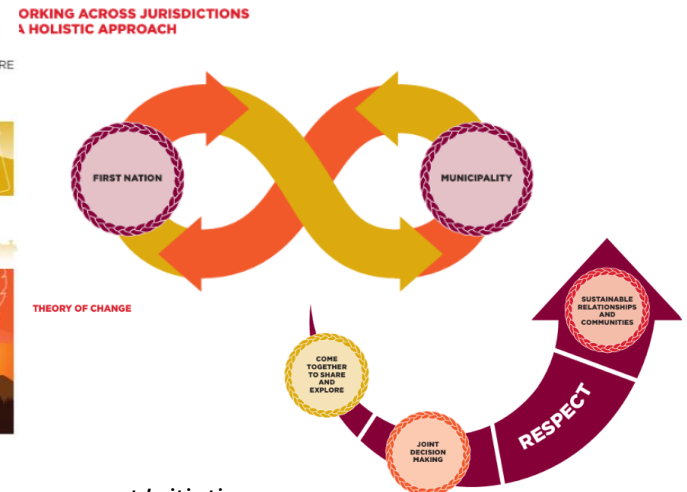
Australian Government
Department of Climate Change,
Energy, the Environment and Water
National Waste Policy Action Plan



Avfall Sverige
Swedish Waste Management



Canada Government
First Nations Waste Management Initiative
First Nations Infrastructure Investment Plans, Fund and Toolkit



Let's make a plan ... and start delivering it

What do we need?

Why do we need it?

Where is it needed?

When do we start or change?

How do we do it?

