CIRCULAR INNOVATION COUNCIL

CIRCULAR INNOVATION COUNCIL

Recycling Council of Ontario

PUTTING CIRCULAR ECONOMY CONCEPTS INTO ACTION

Circular Procurement Virtual Series 2020

Putting Circular Economy Concepts Into Action

IDENTIFYING OPPORTUNITY AND AMBITION

Monday, 30 November, 2020

11:30 a.m. – 1 p.m.

Recycling Council of Ontario

BACKGROUND

- Established in 1978 as Recycling Council of Ontario with a focus on solid waste
- Instrumental in facilitating partnership between government and municipalities to create the Blue Box program
- Unique membership: spans entire value and supply chains
  - government, industry producers, sellers, collectors, processors, educators, academia, researchers
- Policy and Advocacy | Resources and Services | Programs and Pilots

PLASTIC ACTION CENTRE

10 000 CHANGES™
Canada's Commitment to Rethink Plastics

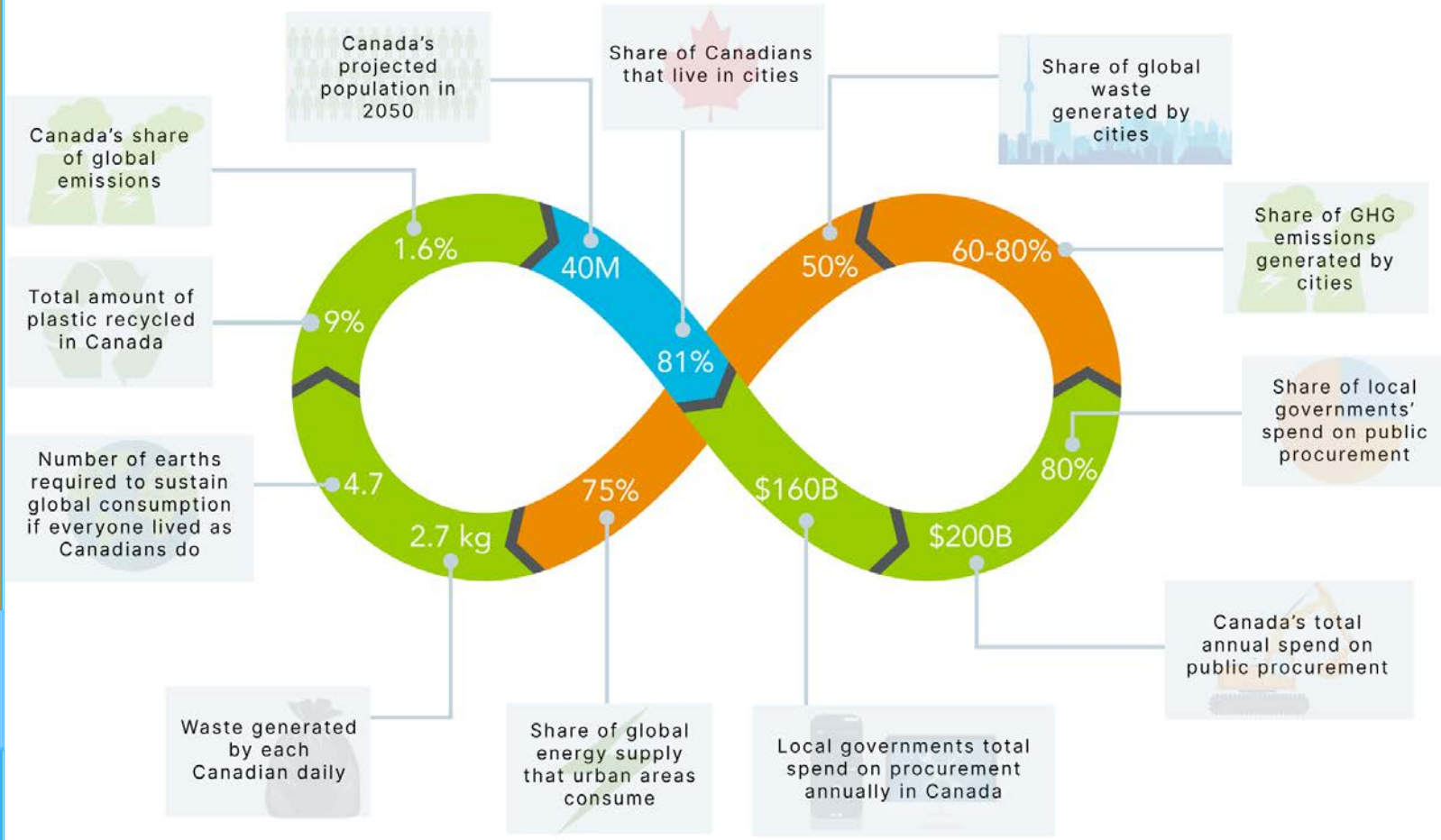
PLASTIC BAG GRAB challenge

3R Certified

WASTE REDUCTION WEEK IN CANADA

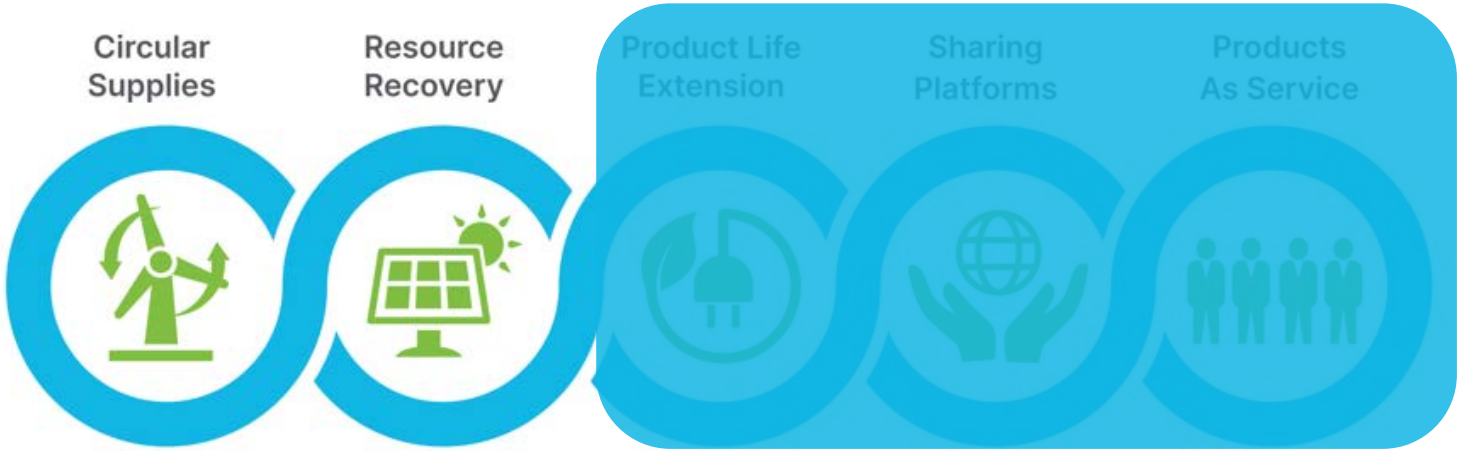
TAKE BACK THE LIGHT

CONSUMPTION STATISTICS



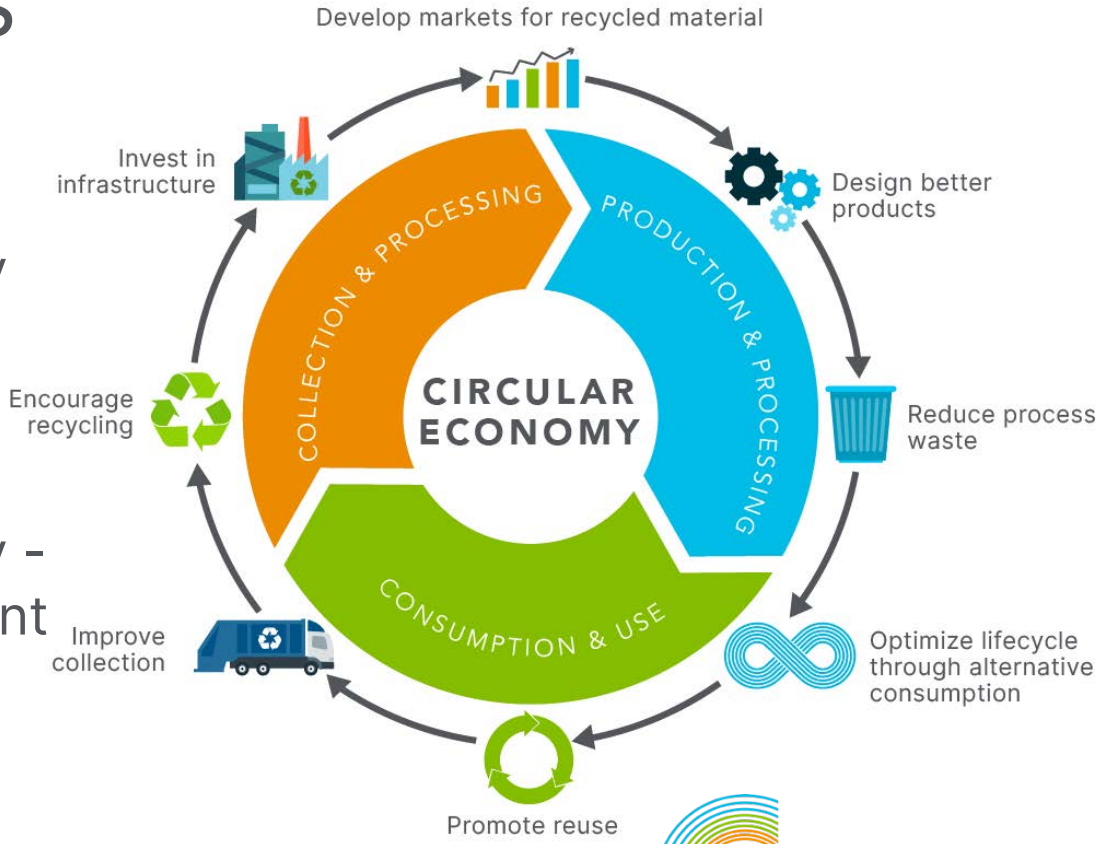
CIRCULAR BUSINESS MODELS

TAKE BACK THE LIGHT



OUR FOCUS

- Driving greater recognition of circular economy and its benefits
- Advancing the circular economy - linking it to current objectives
- Putting circular economy concepts into action



CIRCULAR INNOVATION COUNCIL

Circular Procurement Virtual Series 2020

Putting Circular Economy Concepts Into Action

BENEFITS

Environmental

- Reduced reliance on virgin materials
- Better efficiency of existing resources
- Create market demand increased for recycled materials and content
- GHG / waste / water usage reduction
- Limit single-use where possible

Economic

- Local employment opportunities
- Innovation is stimulated
- New revenue streams created
- Improved fiscal responsibility and economic growth
- Avoidance of purchase or maintenance
- Savings on disposal and management

Social

- Local employment opportunities
- Overcome barriers to employment
- Gender equity
- Engage marginalized communities
- Fosters unique public and private partnerships

Circular Procurement Virtual Series 2020
Putting Circular Economy Concepts Into Action

IDENTIFYING OPPORTUNITY AND AMBITION

Monday, 30 November 2020

11:30 a.m. – 1 p.m. ET

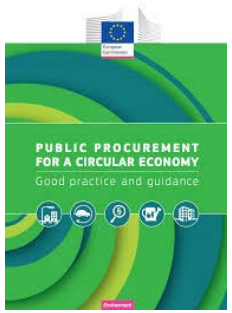
Implenting a circular public procurement approach

Circular Procurement Virtual Series 2020

30 November 2020

Dr Mervyn Jones
Sustainable Global Resources

SDGs, circular economy & procurement



Circular Procurement Delivery Mechanism

Circular Economy

EU Circular Economy Package

SDG12 (12.7)

Sustainable Development Goals

Circular tender

CircularProcurement
Advancing the circular economy through purchasing power

Definition: circular procurement is...

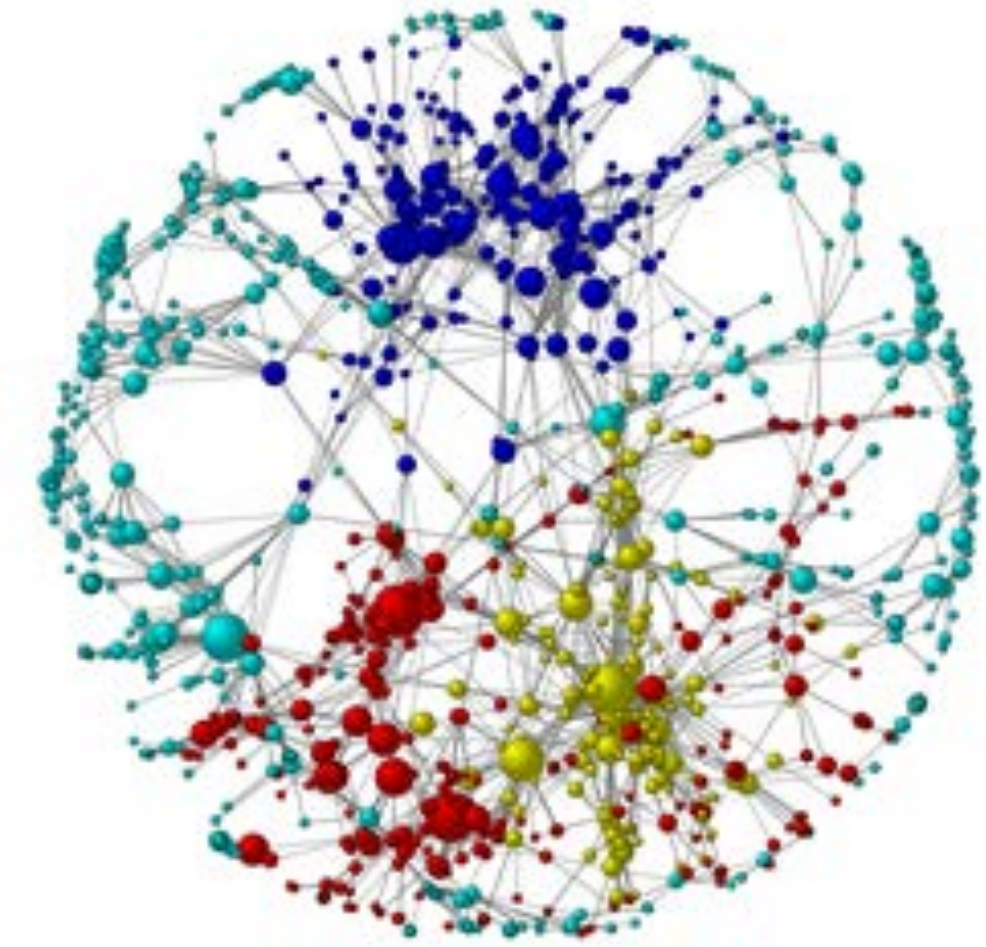
... an approach to delivering sustainability goals that recognises the role that organisations can play in supporting the transition towards a circular economy.

... the process by which public authorities purchase works, goods or services that seek to contribute to closing energy and material loops within supply chains, whilst minimising, and in the best case avoiding, negative environmental impacts and waste creation across their whole life-cycle.

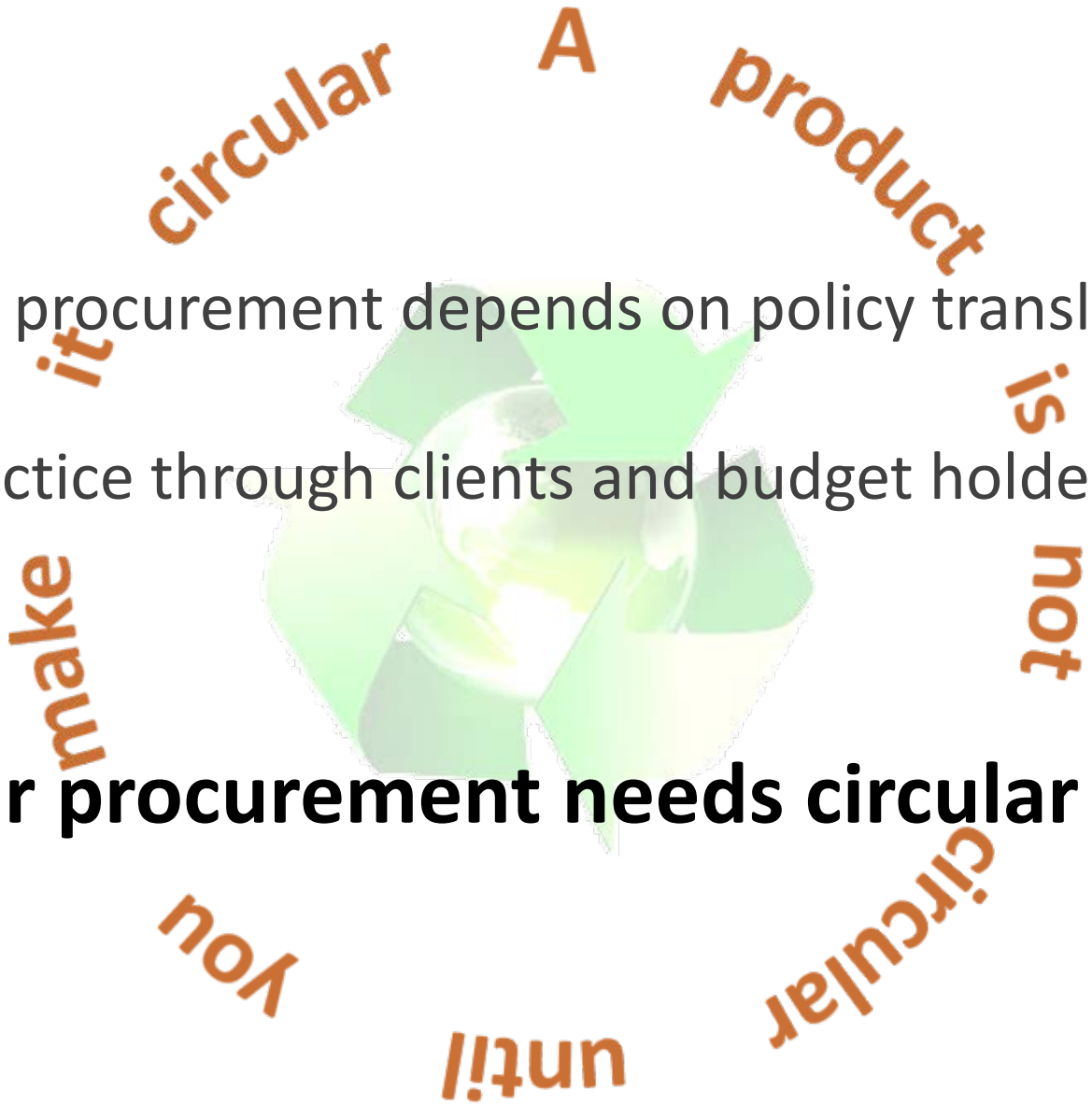
Procurement is ~~a~~ an evolving system

- The procurement cycle is a system.
- Life cycle thinking is helpful in a public procurement process to evaluate the inputs, outputs and potential environmental impacts of purchasing a particular product throughout its lifecycle

  you will have to procure, and pay for, waste services at some stage!



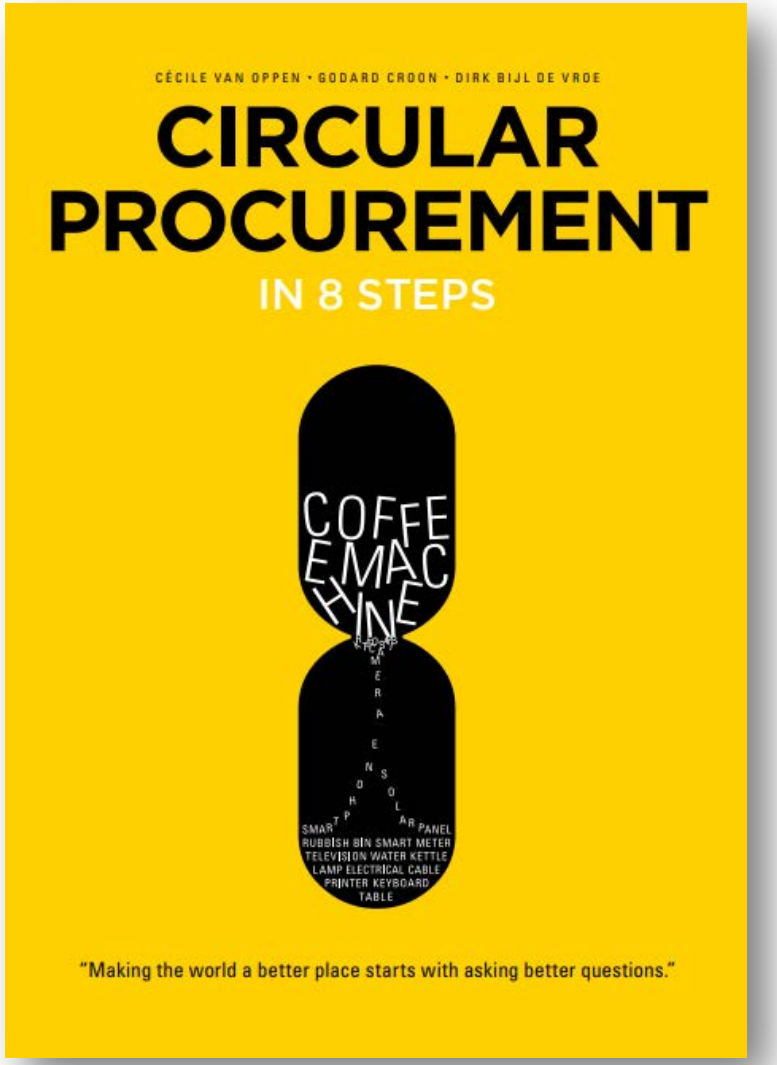
Circular clients



Circular procurement depends on policy translated into practice through clients and budget holders

Circular procurement needs circular clients!

Circular Procurement in 8 steps



STRATEGIC

1. From definition to ambition
2. Internal organisation
3. Defining your need
4. Business models
5. Market collaboration

TECHNIQUE

6. Tender procedure
7. Measuring and awarding
8. Contract management

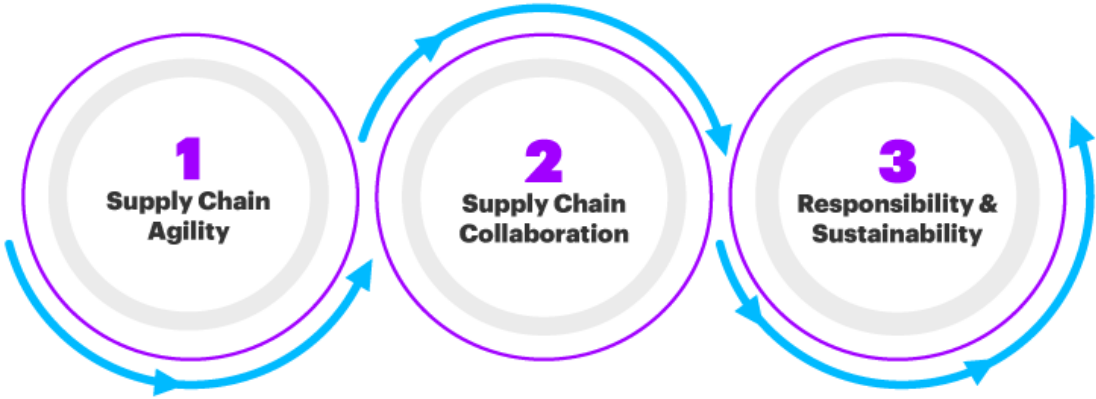
https://www.copper8.com/wp-content/uploads/2018/10/Circular-Procurement-in-8-steps-Ebook.pdf

Getting started

- Define your contribution to a ‘circular economy’
- Identify ambitions & policies
- Select a suitable product group
- Collaborate
  - involve internal stakeholders
  - work with suppliers not against them
- Do something different
- Measure impact, communicate success and learn from mistakes

3 levels of collaboration

- Internally
  - A procurement lifecycle approach involves a wide variety of internal stakeholders
  - Change management involves everyone
- With public sector bodies and customers
  - Collective responses to climate emergency
  - Collective responses to COVID-19 recovery
  - Collective approach to suppliers
- With the suppliers
  - Collective responses to climate emergency
  - Collective responses to COVID-19 recovery
  - Collective approach to suppliers



Jose Bleda, ACCENTURE (July 2020)

Cardiff Council, Wales - aggregated spend areas 2019-20

Spend Area	CPV Codes	Spend Value
Building Services	50000000-5	52%
Transport	34000000-7	
Construction	45000000-7	
Waste Management	90500000-2	11%
ICT	30200000-1	8%
Infrastructure	44113000-5	8%
Events	79952000-2	6%
Food & catering	15000000-8	3.4%
Consumables & Equipment	30000000-9	3%
M&E services	51100000-3	2%
Facilities Management	79993000-1	2%
Parks & Maintenance	77313000-7	1.4%
Furniture	39000000-2	1.2%
Plant & Equipment	31000000-6	<1%
Cleaning	39800000-0	<1%
Sub-total		£185 million
Total spend:		£426 million

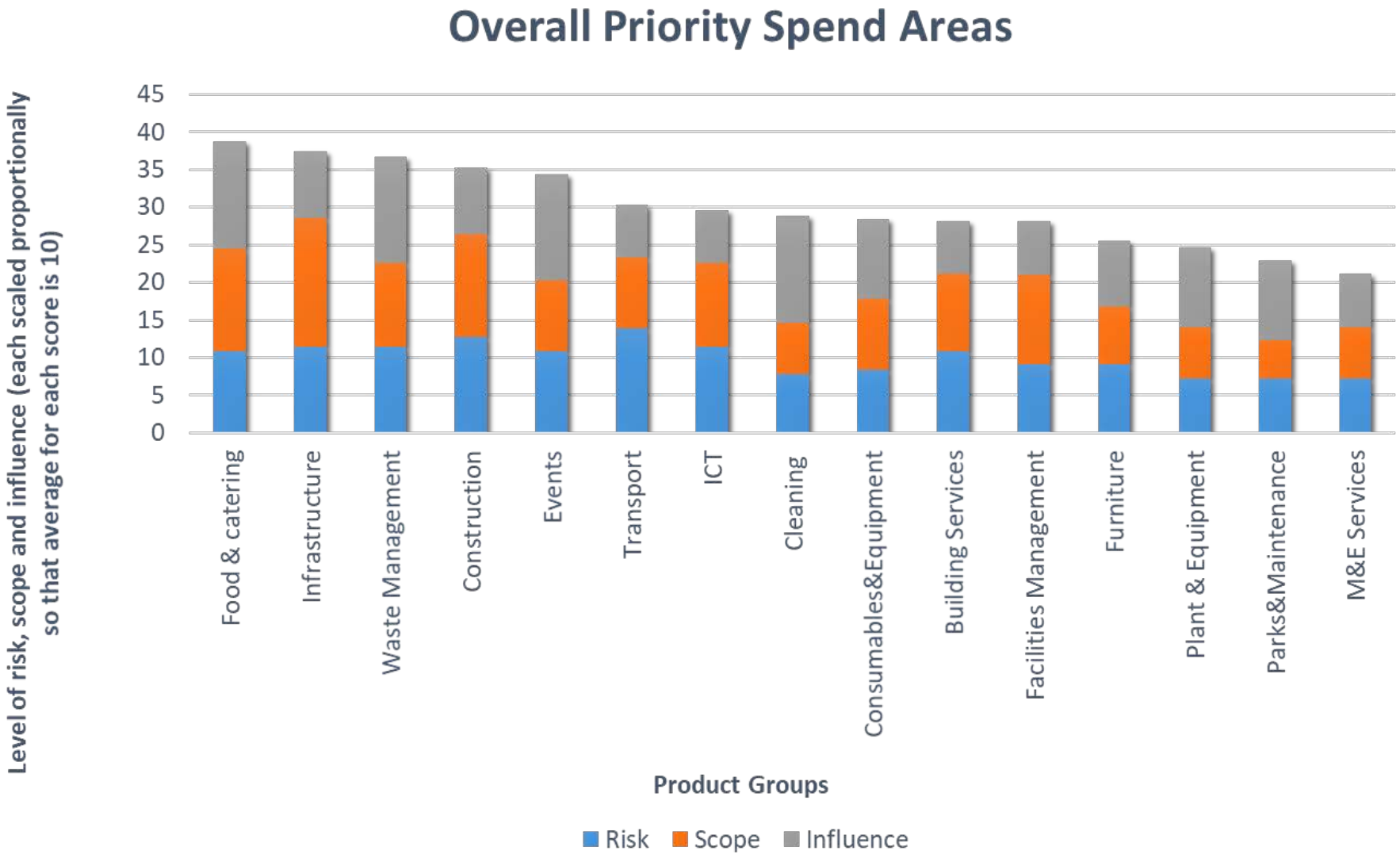
Cardiff Council policy priorities

Priority issues	Issue type
CO2 & Carbon (OPC)	Environmental
CE Actions - reuse & recycling	Environmental
Waste to landfill	Environmental
Energy Efficiency	Environmental
Transport	Environmental
Well-being (WBFG)	Social
Local employment & training	Social
Community Benefits	Social
Ethical Employment	Social
Value for Money	Economic
Green Growth	Economic

11 priority issues identified in:

- One Planet Cardiff strategy 2013
- Cardiff Procurement Strategy 2017-2020
- Cardiff Council Socially Responsible Procurement Policy 2018

Cardiff Council spend priorities



CP approach

Written by municipalities for municipalities

Reading guide & Summary

I Basic chapters

II Core chapters

III Recommendations

Library

Reading guide
Summary
H1 Introduction
H2 Start
Actions
H3 10-Step plan
H4 Measuring
Timetable and actions
H5 A ready organisation
Timetable and actions
H6 Ownership and communication
Timetable and actions
H7 Recommen-dations
Instruments
Examples

[Download Link (English language version)]

Main takeaways

- Use procurement as a **strategic** instrument to deliver circular, whole life benefits
- Procurement is not just about **sourcing** but also **use** and **disposal**
- Circular procurement involves many stakeholders so **collaborate**
- **Measure** your progress, recognise **success** and accept this may not happen straight away

Thank you

Mervyn Jones | Sustainable Global Resources

mervyn@sustainableglobalresources.co.uk

NEXT STEPS FOR MEETING ZERO WASTE

Sinéad Murphy
Business Account and Project Delivery Manager
November 2020

OUR VISION

WRAP's vision is a world in which resources are used sustainably.

OUR MISSION

Our mission is to accelerate the move to a sustainable resource-efficient economy through:

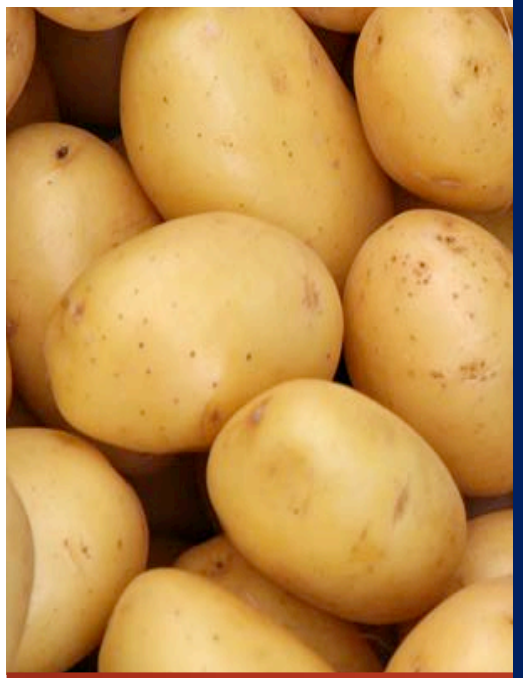
- Re-inventing how we design, produce and sell products
- Rethinking how we use and consume products
- Re-defining what is possible through re-use and recycling.

WRAP LEVERS OF CHANGE

- Policy and Technical Support
- Business Voluntary Agreements
- Financial Instruments
- Citizen Behaviour Change

FOOD WASTE PREVENTION

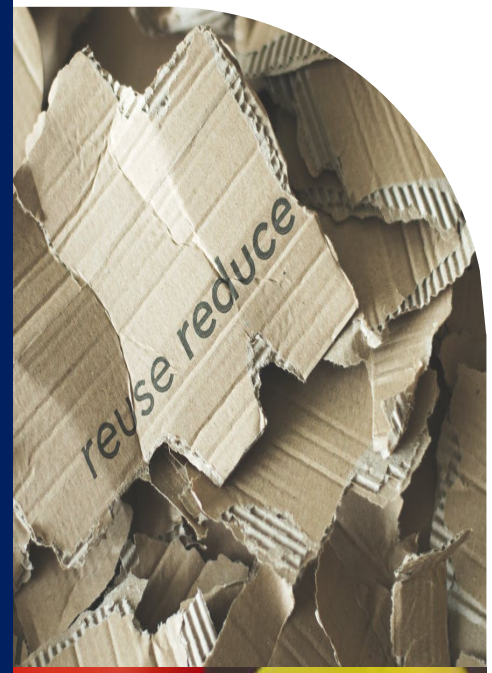
- Target Measure Act – Food Waste Reduction Roadmap
- Voluntary Agreement (Courtauld 2025)
- Resource Action Fund & COVID-19 Emergency Surplus Food Grant
- Love Food Hate Waste & Guardians of Grub



WALES CIRCULAR ECONOMY PROGRAMME

To drive supply and demand of recycled materials through:

- Collaborative Change Programme
- Market Development
- Circular Economy Investment Fund
- Green Public Procurement



GREEN PUBLIC PROCUREMENT

To make the procurement of re-used and remanufactured goods and products containing recycled content the new normal.

SUPPORT OFFER

- **Strategic support**
  - Policy and process, spend analysis and prioritisation, training
- **Individual procurements**
  - Planning, measuring and monitoring
- **Specific category/ sector support**
  - Addressing knowledge gaps, barriers
- **Tools for behaviour change**
  - Case studies and guidance

SUPPORT EXAMPLES

NHS Wales Shared Services Partnership

- Policy support and training
- Spend analysis and prioritisation

Natural Resources Wales

- Tree procurement and packaging options
- Early market engagement

Caerphilly County Borough Council

- Single use plastics strategy
- All Wales Food Framework

TOOLS AND RESOURCES

- **Case Studies**
  - Public Health Wales
  - Swansea City Council
  - Pembrokeshire Milk Packaging
  - Welsh Government
  - NPS
- **Guidance**
  - Plastics procurement
- **Available at:** www.wrapcymru.org.uk/public-sector

CONTACT US

WRAP Cymru
Carlyle House
5-7 Cathedral Road
Cardiff
CF11 9HA

www.wrapcymru.org.uk
sinead.murphy@wrap.org.uk

Sinéad has been with WRAP since 2016 and is a Business Account and Project Delivery Manager working on WRAPs green public procurement support programme. She also leads the re-use and recycling work stream on the Sustainable Clothing Action Plan, WRAPs UK wide voluntary agreement for the clothing sector.

Prior to joining WRAP Sinéad worked in consultancy, advising on planning and sustainable design aspects of large masterplan development projects in the UK and internationally.

@WRAP_UK

@WRAP_Cymru

Circular Economy
Ambitions and opportunities

Nov. 30th 2020

Tor Gausemel Kristensen

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 821033.

CityLoops

- International research project
  - Horizon 2020
- 7 cities i EU
  - Different challenges, same goal – increased circularity in society
- Technology & innovation
- 3 phases: research, demonstration, **replication**

CityLoops in Bodø

What

Demolition of military airport, building of new airport, developing a new part of the city

Opportunities

1. Procurement (our focus today!)

2. Business models

3. Tools, methods & **technology**

bodø KOMMUNE

Ambition

Bodø municipality shall be a pioneer in climate and energy work - a smart, green, future-oriented and sustainable society

Are we headed this way?

1. Procurement

A **powerful** strategic instrument for greener practise in society

17% GDP

Opportunities for making a difference

How to improve? Getting the facts straight

How’s the state now?

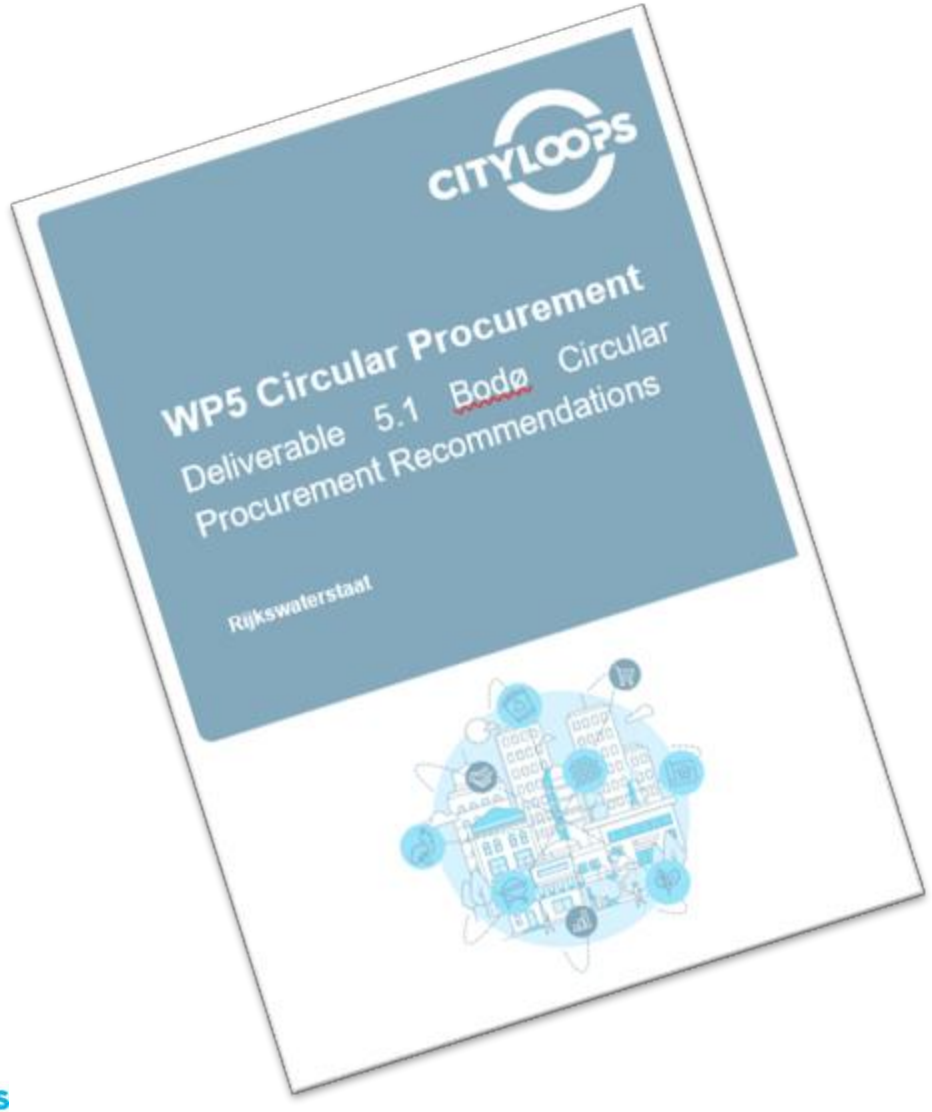
Analyzes

Spend analysis
Tender analysis
Sector analysis
Best practise

Where should our focus be?

Improvement actions

Academic productions to support us



Spend analysis

Spend data

Qualitative data from workshops

Some findings from workshop

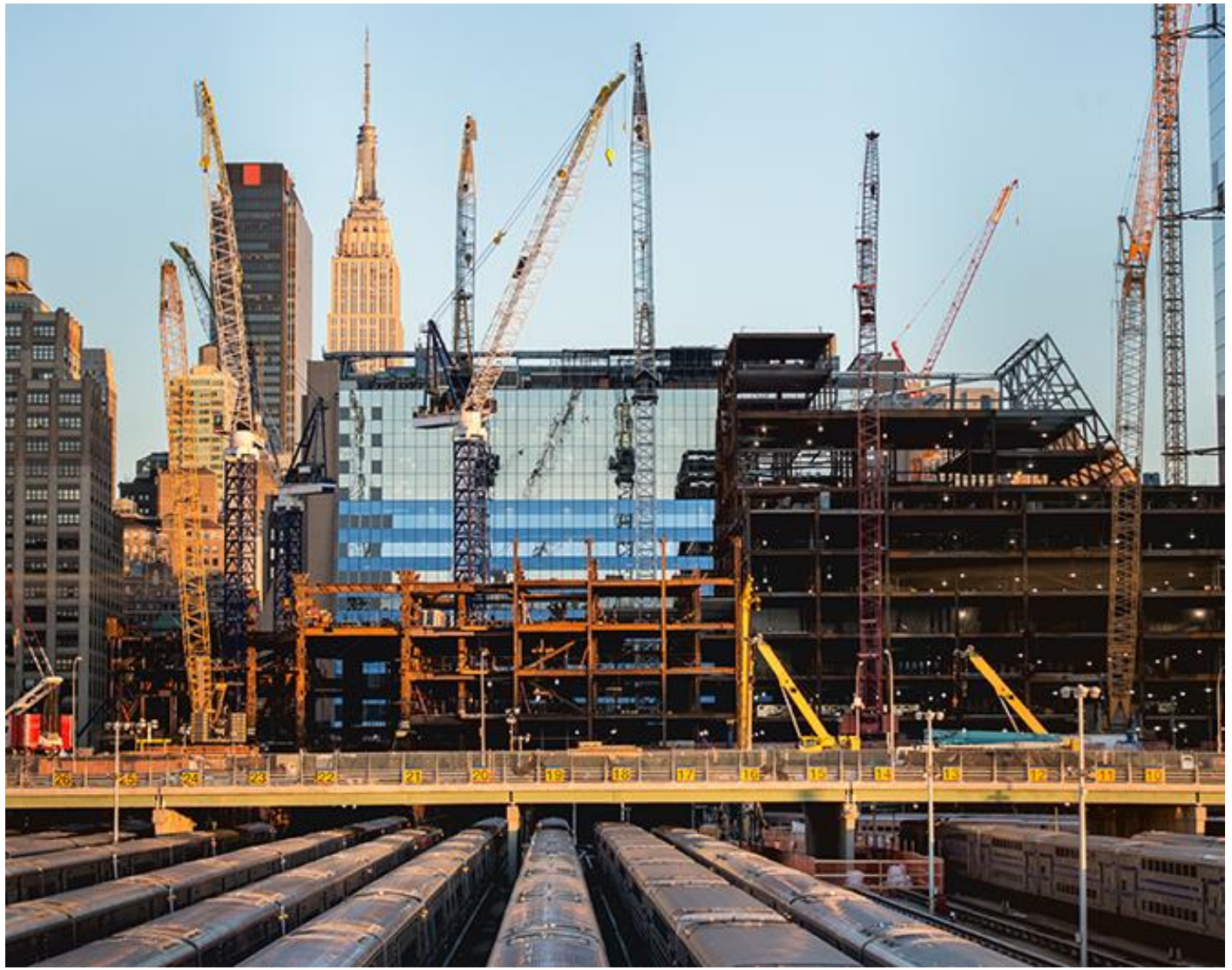
Somewhat pessimistic to own performance

Agreement that routines for green procurement are important for New City New Airport Project (8/9)

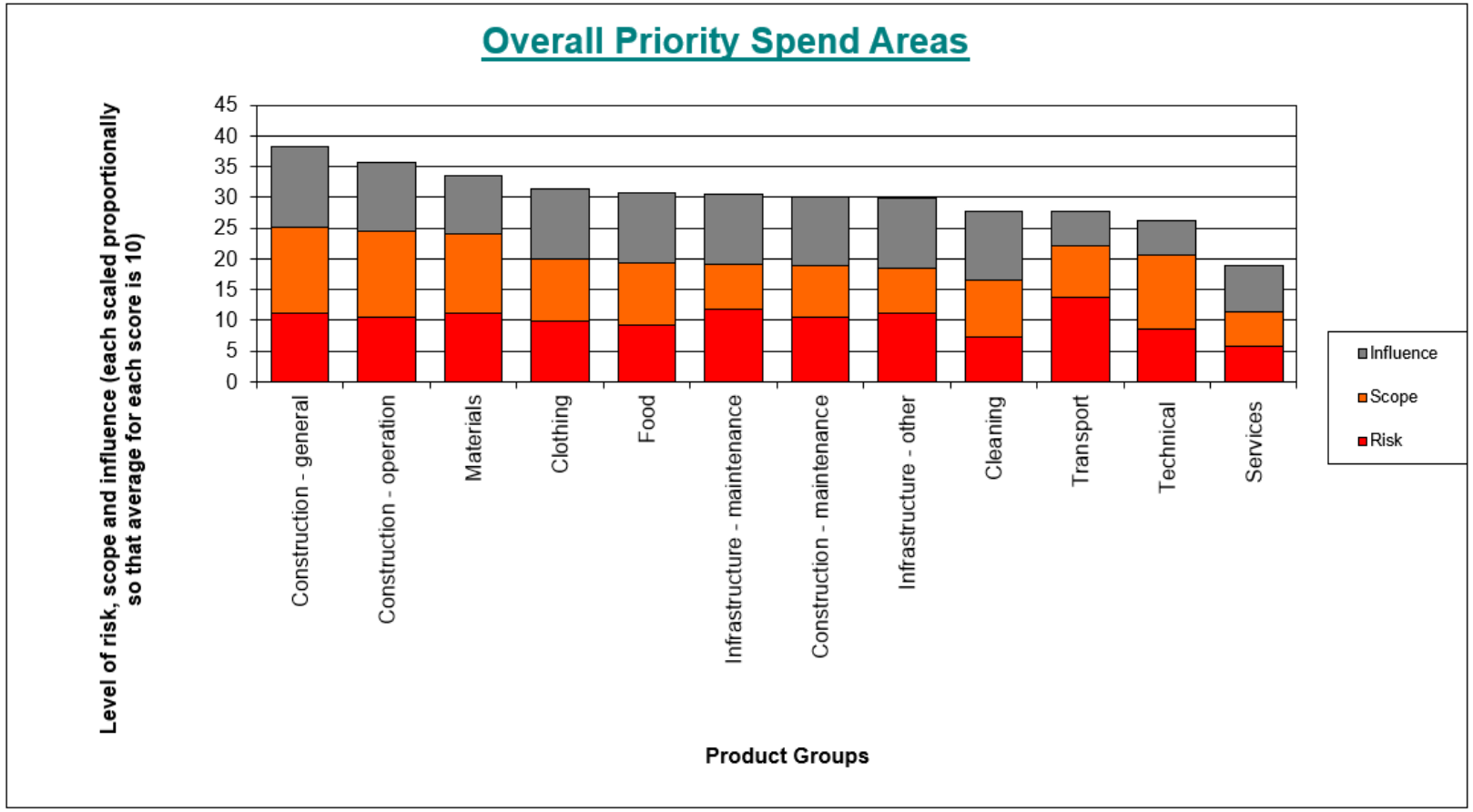
Spend data findings

41% is related to construction and infrastructure

So this is obviously focus-worthy



Where should we keep our focus?



Risk: exisiting activity, scope to do more, reputational

Scope: improvement potential

Influence: ability to influence the vendor

How good are we?

- Tender review
  - Comparison to best practise
  - We engaged master students to this task

…the tender verdict

- We show environmental **responsibility to a certain degree**.
- Does not practice **green public procurement** enough.
- Why? **Award criteria** not weighted enough to make a difference.

  - Example: **transport**. Demands to product and wrapping, but no demads to i.ex. Environmental friendly transport or emissions other places in the value chain.
  - And: **only 24% of the award criterias** has formulated demands to environmental factors.
    - **52% in EU**

- We’re good at demanding a certain environmental profile with our vendors
  - **76% of the tenders contains demands** in the qualifications requirements
    - But what are these demands? Mostly just a requirement to a environmental management system
  - In comparison: **only 25% i EU**

So

- Bodø Municipality **lacks knowledge** about the implementation of environmental responsibility in the award criteria
- Difference between **political guidelines** and green procurement in **practice**.

This new information

...gives us opportunity to measure improvements

Recommendations

- **Early market** involvement
- Not only qualification requirements - **also award criteria**!
- **Precise** environmental requirements.
- **Tools** for implementing political commitments
- **Learn** from the good ones
- Green **terminology** in tenders
- Increased **knowledge** in the whole organization
- Employee dedicated to **contract follow-up**

Recommendations

Annual evaluation of consumption and routines

Workshops

Requirements, **selective deconstruction,** reuse - **before tender**

Categorical requirements

- Example: packaging, washing, textiles, technical solution

What do we do with this information?

Data based

Measure effects from improvement actions

Holistic

Permeate to whole organisation

Decision makers

Communicate results & importance

Our case: more sustainable – more funding

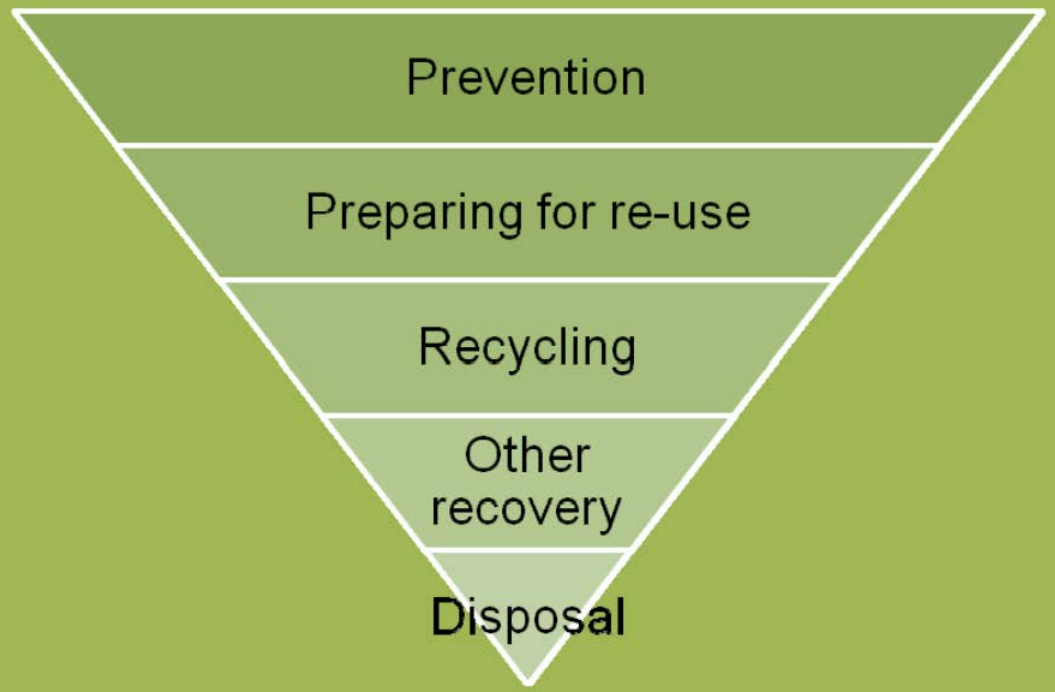
= The power of green procurement

New employee – externally financed

Follow up

Share the ambitions in the whole organisation

Example: how all our suppliers' solutions became circular



Tender

Suggestion new city concept

3 vendors met qualification criteria

Communicated to them the award prioritations early

Circular economy hierarchy

Let them work with our ambtions as a base

Public presentation

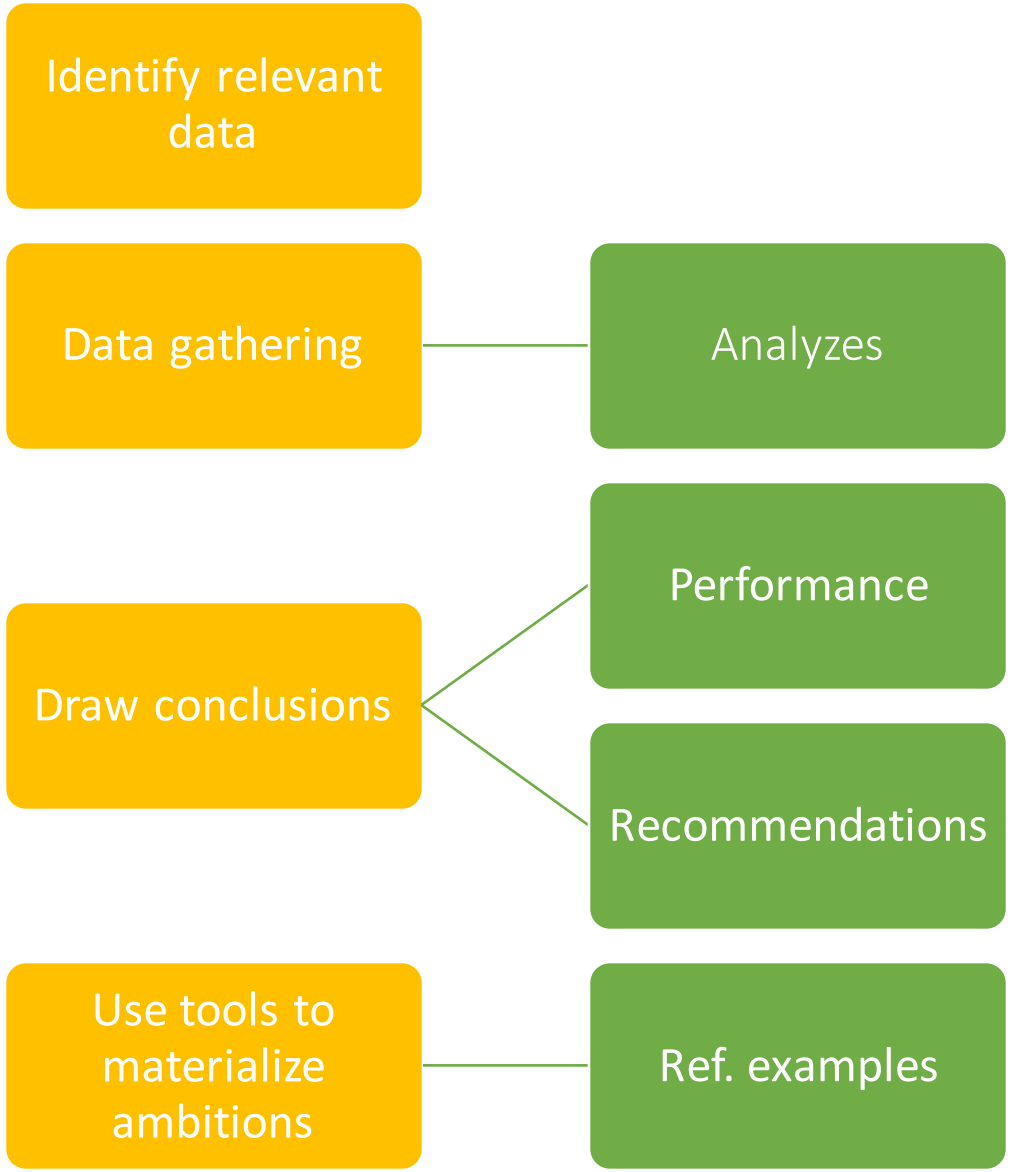
Implementation?

Example from Norway

More academic productions

- Public buildings; opportunities, potential, barriers
- Focus segment
- Mechanisms to practise political commitments
- Early market involvement in projects
- Business case: investment analysis mass handling facilities

Summary – step by step



Next time

- **Business models**
  - Investment analysis cleaning facilities
  - Green profit anlysis-tool
  - Reuse examples: landing strip
- **Innovation & tech**
  - CityLab
  - Visualisation
    - Mapping, material flow, modelling, LCA, databank

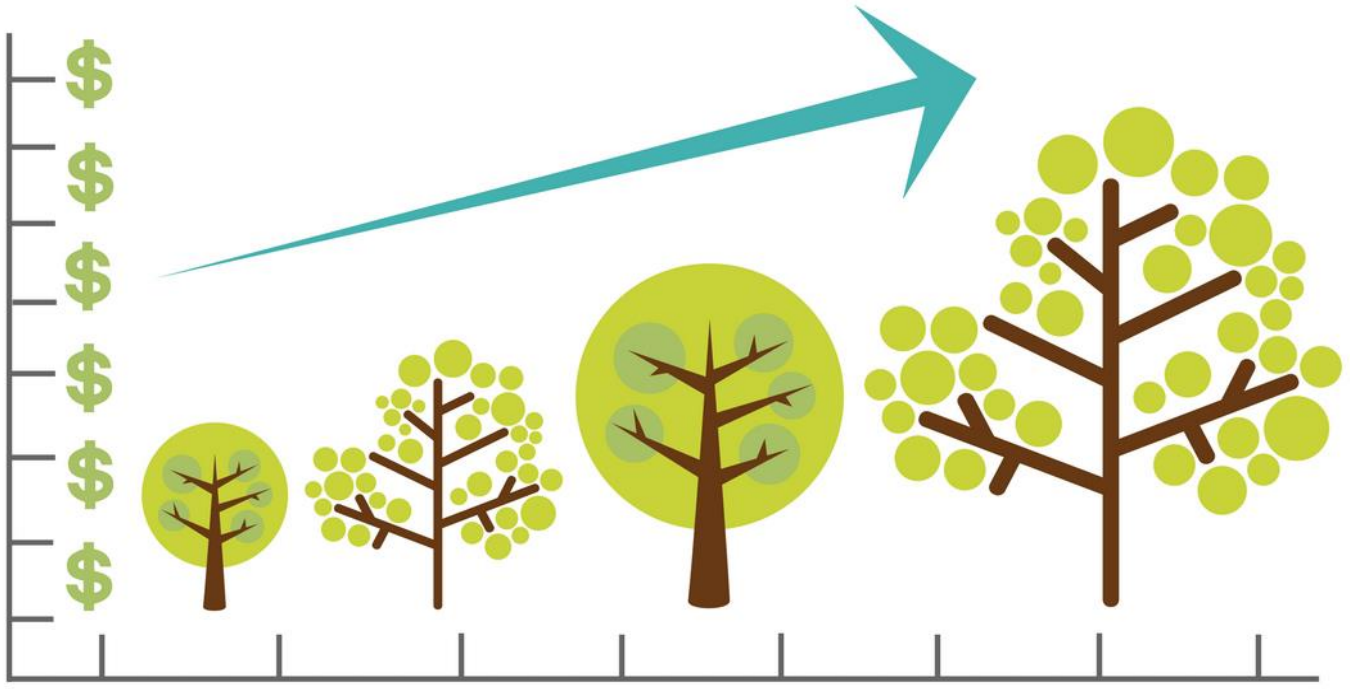
2. Business models

- Total cost perspective
  - Public health
  - Emission
  - Traffic
  - LCA
- Make circularity attractive for private companies
  - Reuse of masses
    - Calculations
- Specific case from CDW-sector: investment analysis washing facilities
  - Learn from London Olympics 2012

Is it possible to make money from circularity?

- Many companies proves that it is.
  - Example: NOFIR
    - Collecting ocean waste – making new products

Green profit analysis (norwegian)



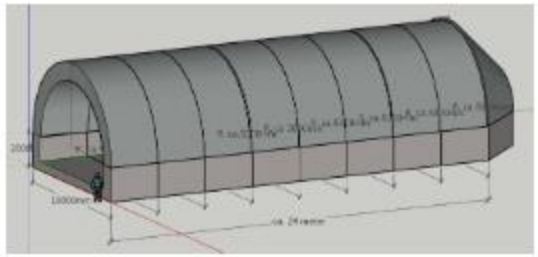
- https://www.miljodirektoratet.no/globalassets/publikasjoner/M960/M960.pdf
- https://www.miljodirektoratet.no/myndigheter/klimaarbeid/kutte-utslipp-av-klimagasser/klima-og-energitiltak/bygg-og-anlegg/energieffektive-og-klimavennlige-nybygg/hvordan-bestille-et-klimavennlig-bygg/

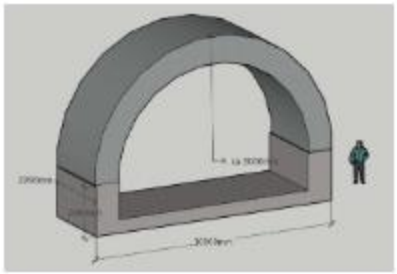
Demonstration project in general – some examples

- Intermediate storage facility **confirmed**
  - After presentation to the City council, municipal directors and the New Airport New City steering group
  - Structured demolition central
  - (PFAS)Washing facility under consideration.
- Reuse of military landing strip
  - Repurposing. From landing strip to access road
    - To the City and to the New Airport
    - Upcycling
    - Waste reduction
    - **New: Circulus project**

Selective demolition

- The concept of demolishing structures in order to make its components reusable





Shelter:

Fotgjenger over/underganger

Technical Solution AS

Bro-elementer

3. The tools – and our focus

1) Life Cycle Assessment for demolition and renovated sites

2) Screening procedures and tool for selective demolition

3) Framework for developing a circular soil strategy

4) Instrument for predicting future excavated soil production

5) Tool/methodology for assessing soil reuse potential

6) Tool/methodology for identification and assessment of sites/projects fit for soil reuse

7) 3D-modelling tool for tracking the flows of on-site CDW

8) Databank and digital market place for recovered materials

9) Construction material passport and CDW materials databank

10) Co-design process for public space redevelopment

11) 3D GIS-based visualisation tools for monitoring and planning

12) CityLab (ByLap) stakeholder engagement platform at Bodø town hall

13) Quality assessment of CDW

14) CDW flow optimisation tool

15) Wellbeing monitoring tool

16) City simulation platform

17) Awareness campaign on CDW management

Tools examples: CityLab – reuse workshop for kids

CityLab

Why visualisation

To make this look like this

Make huge amounts of complicated data understandable

Identify correlations

LCA

Databanks reused materials

Selective demolition

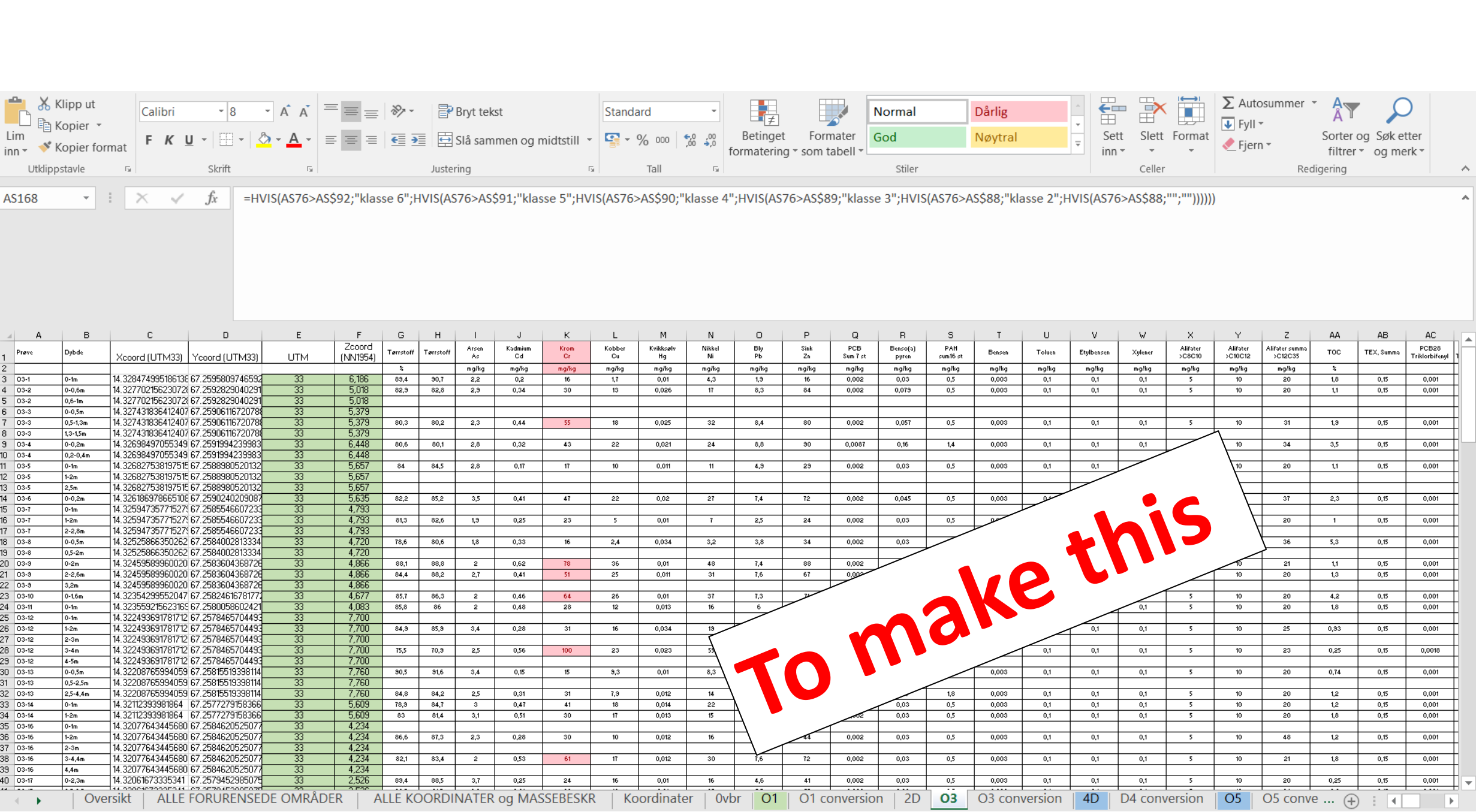
Modelling

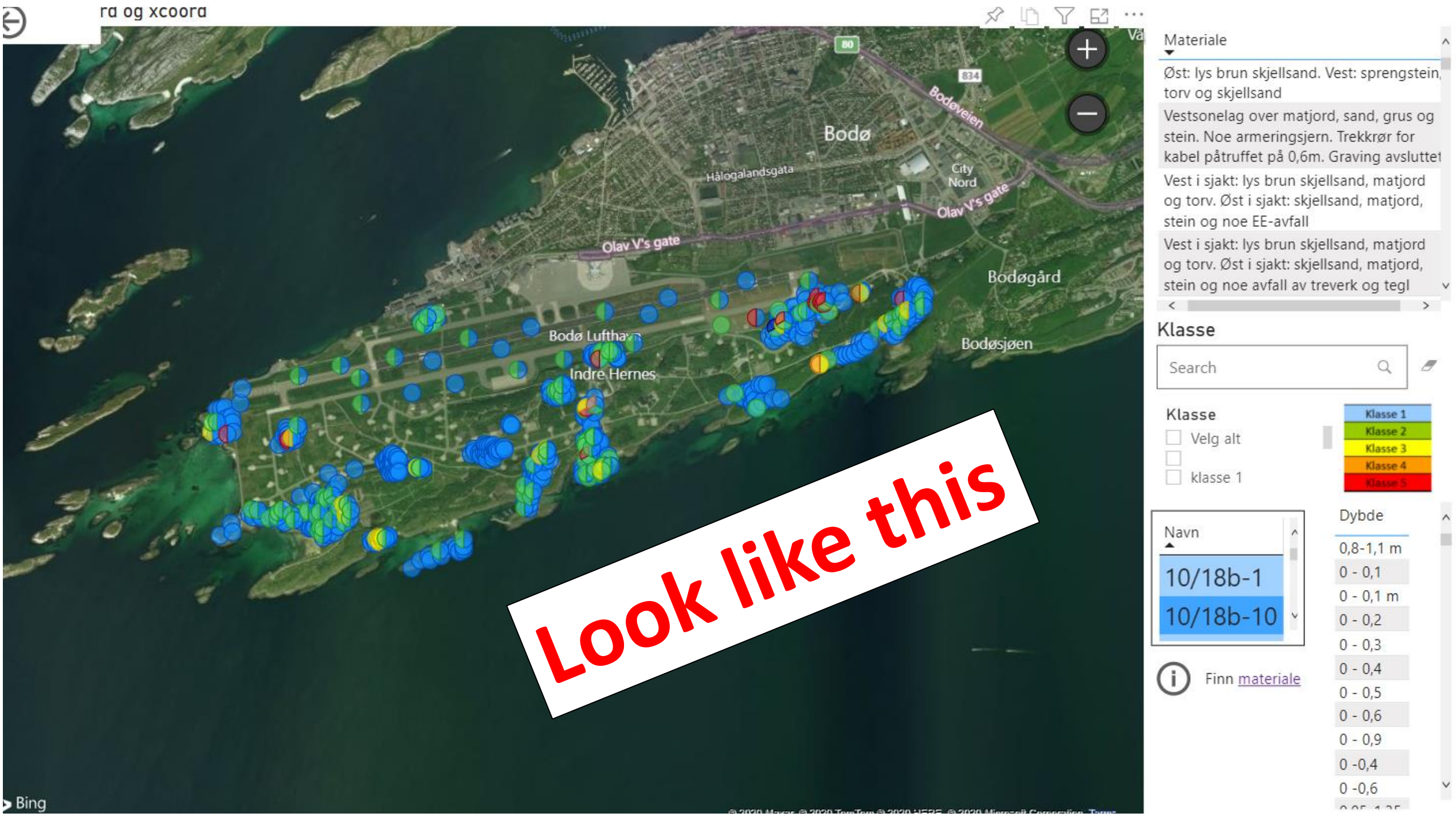
BIM

- Building planning with used knowledge

Simulations

- In relation to live and historical data


Klipp ut
Kopier
Kopier format
Lim inn
Utklippstavle
Calibri
8
Skrift
Bryt tekst
Slå sammen og midtstill
Justering
Standard
Tall
Betinget formatering
Formater som tabell
Normal
Dårlig
God
Nøytral
Stiler
Sett inn
Slett
Format
Celler
Autosummer
Fyll
Fjern
Sorter og filtrer
Søk etter og merk
Redigering
AS168
=HVIS(AS76>AS$92;"klasse 6";HVIS(AS76>AS$91;"klasse 5";HVIS(AS76>AS$90;"klasse 4";HVIS(AS76>AS$89;"klasse 3";HVIS(AS76>AS$88;"klasse 2";HVIS(AS76>AS$88;"";"")))))
To make this
Oversikt
ALLE FORURENSEDE OMRÅDER
ALLE KOORDINATER og MASSEBESKR
Koordinater
0vbr
O1
O1 conversion
2D
O3
O3 conversion
4D
D4 conversion
O5
O5 conve ...



Materiale

Øst: lys brun skjellsand. Vest: sprengstein, torv og skjellsand

Vestsonelag over matjord, sand, grus og stein. Noe armeringsjern. Trekkrør for kabel påtruffet på 0,6m. Graving avsluttet

Vest i sjakt: lys brun skjellsand, matjord og torv. Øst i sjakt: skjellsand, matjord, stein og noe EE-avfall

Vest i sjakt: lys brun skjellsand, matjord og torv. Øst i sjakt: skjellsand, matjord, stein og noe avfall av treverk og tegl

Klasse

Search

Klasse

Velg alt

klasse 1

Klasse 1
Klasse 2
Klasse 3
Klasse 4
Klasse 5

Navn

10/18b-1

10/18b-10

Dybde

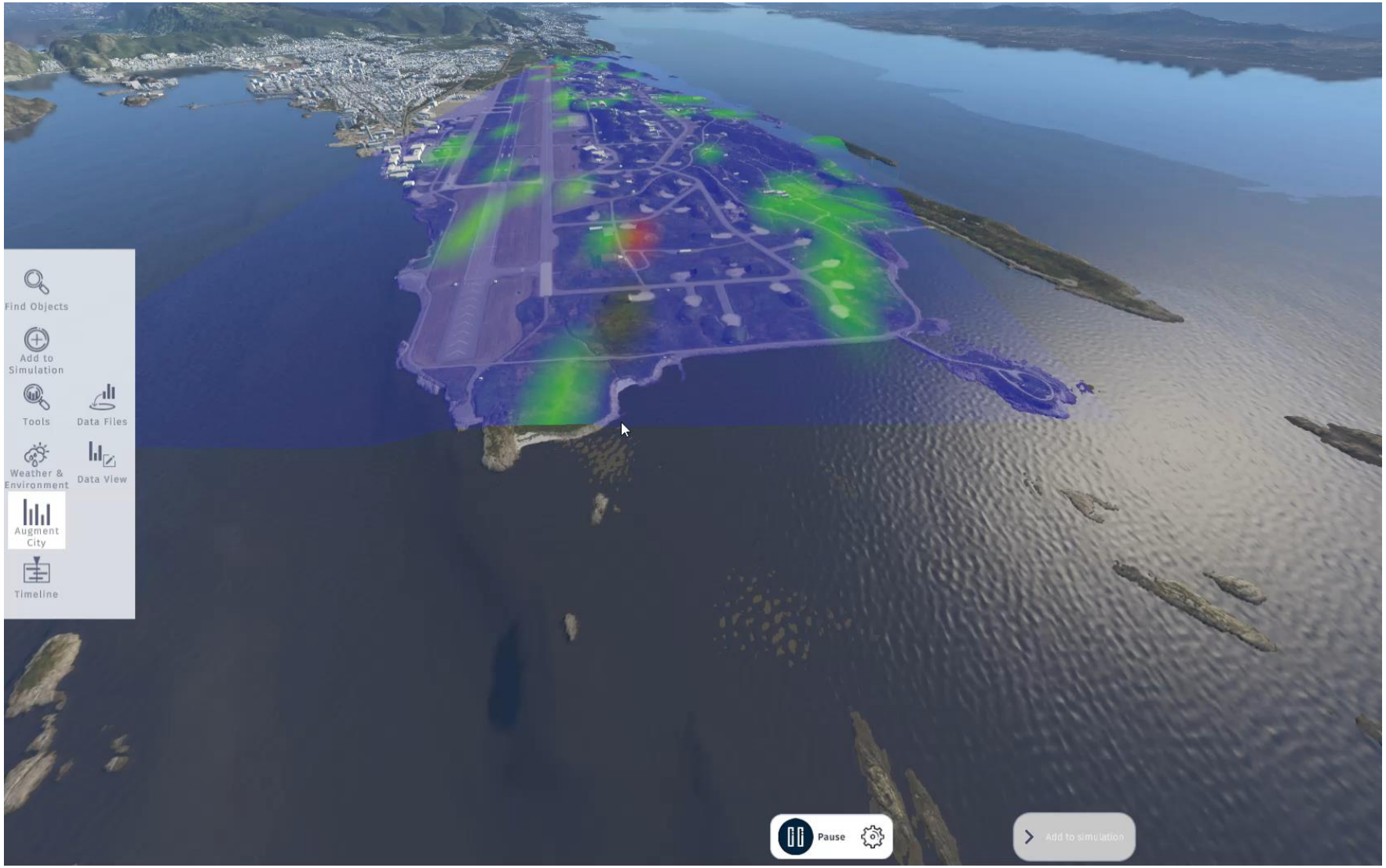
0,8-1,1 m
0 - 0,1
0 - 0,1 m
0 - 0,2
0 - 0,3
0 - 0,4
0 - 0,5
0 - 0,6
0 - 0,9
0 -0,4
0 -0,6

Finn materiale

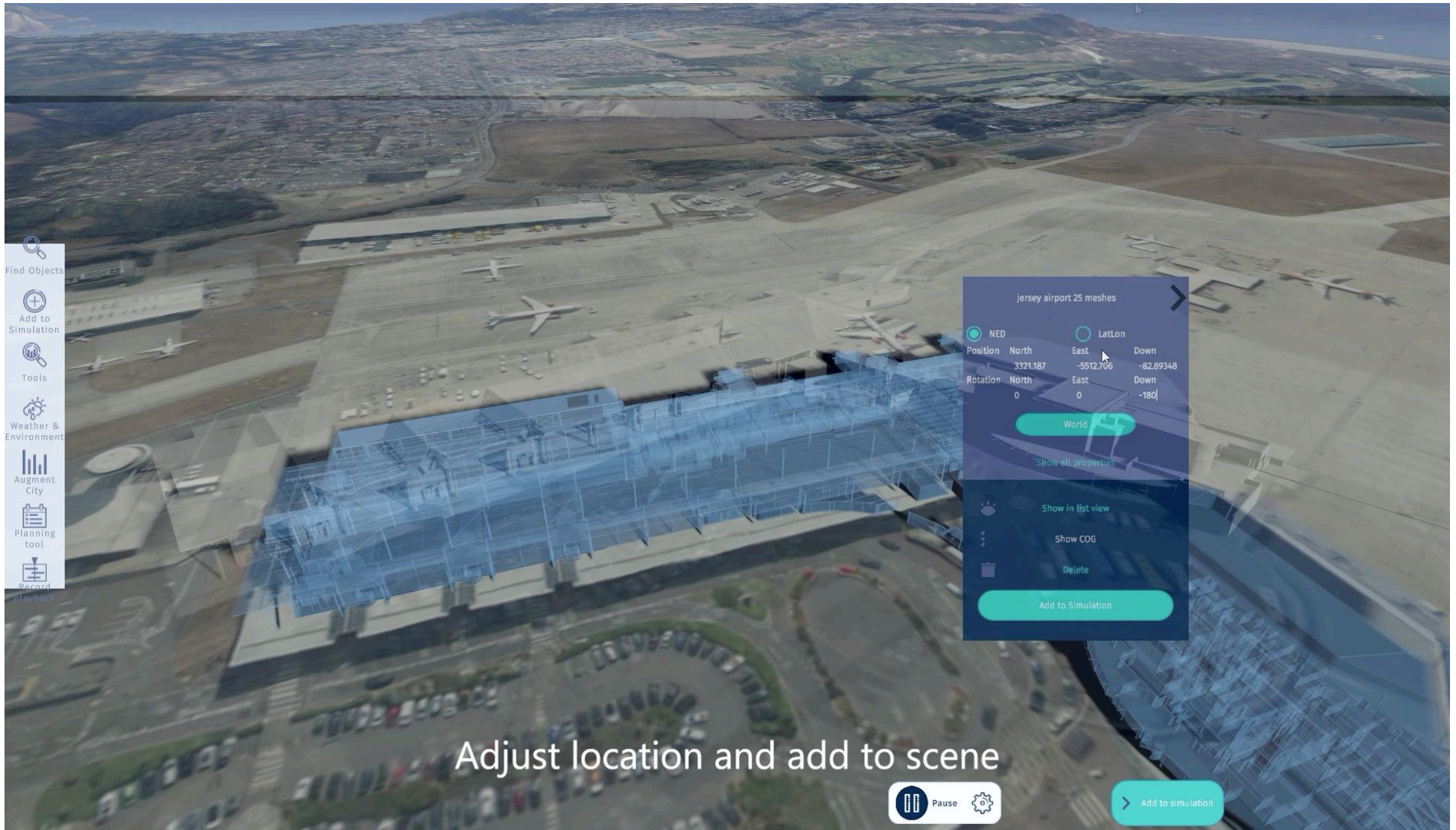
Tool example: digital twin


2018-07-15 T00:00
NTNU
Kunnskap for en bedre verden
CAMPUS ÅLESUND
Vegtrafikk
15
Correlation example: how emission correlates with tourists

Pollution and mass identification example



Building modelling example



M36 -> Replication

OPEN SOURCE

METHODS

SUPPORT

How can you get funding for these kinds of actions?

Application

Find the fund

Have good case/demonstration site

Have good partners

And of course: good application writers

Approval

Good applications gives funding

Anchoring

Project manager

Internal and external marketing

Entry to relevant project

Materialise the actions!

Utilisation of competence within and outside the project

Implementation

Influence

Measure

Report

Integrating circular economy criteria in the City's Procurement Policy Project

Council referral

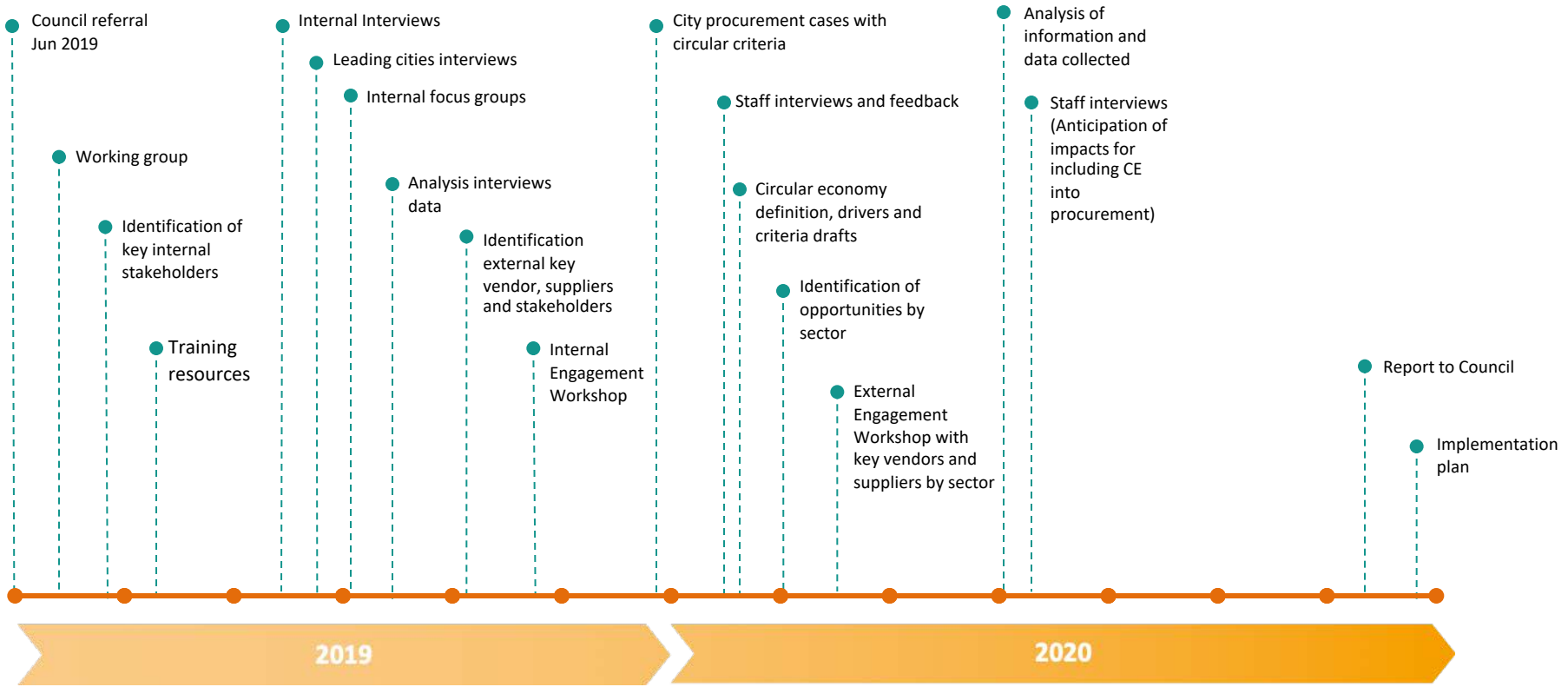
1. Assess procurement processes in the focused areas for:
    - establishing a well-defined framework that integrates circular economy criteria specific to Richmond activities and procurements;
    - developing indicators for measuring results and impacts;
    - assessing cost implications for circular economy considerations.

2. Initiate an interdepartmental engagement program to identify innovative solutions and specifications based on circular economy criteria and anticipated cost considerations.

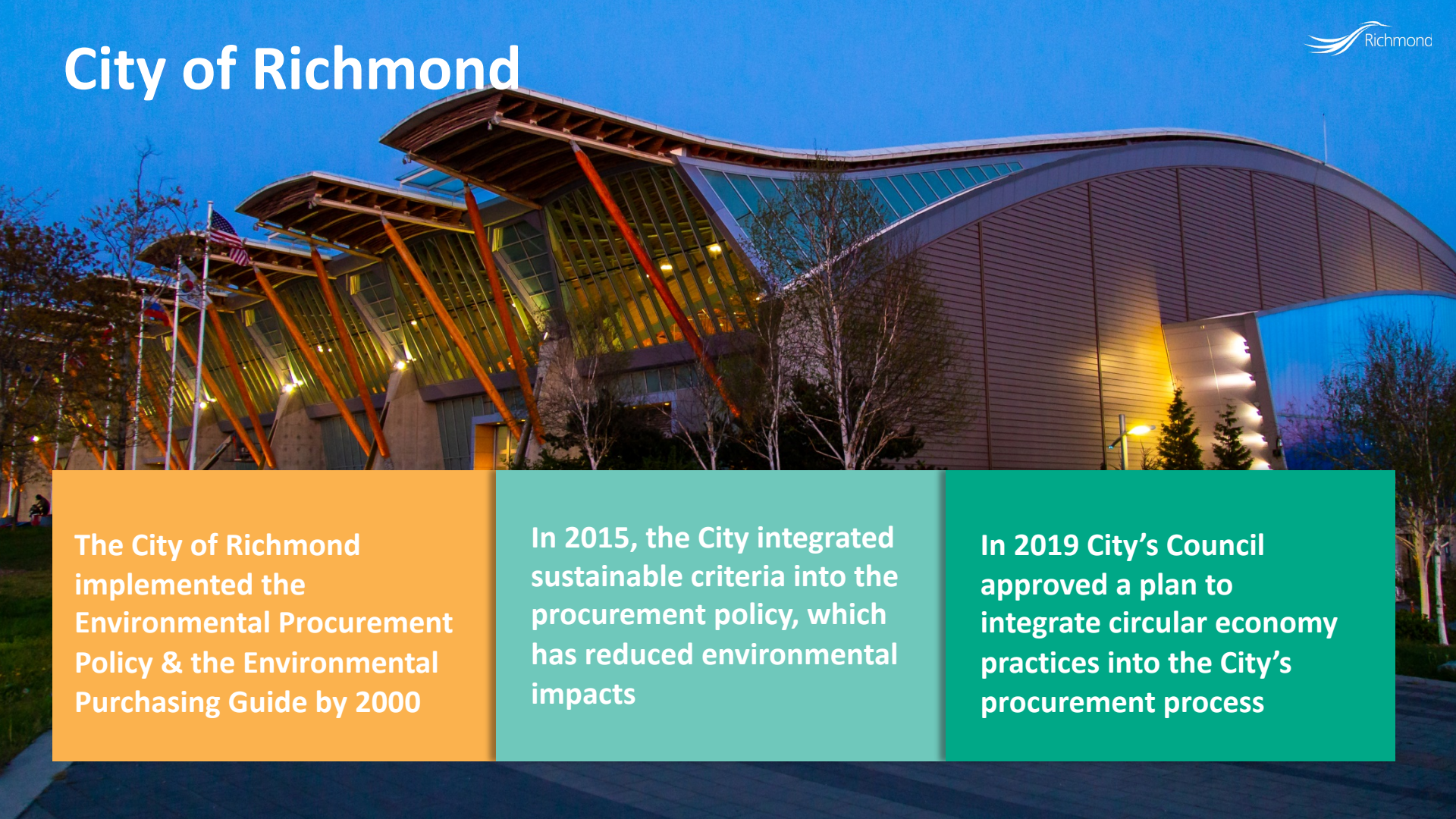
3. Initiate external stakeholder engagement with vendors and local businesses to:
    - inform vendors of the City's circular economy initiatives and expectations for their participation;
    - identify and explore opportunities among stakeholders along the entire supply chain for products, services and solutions that address circular economy criteria;
    - promote potential partnerships and work closer with industry that could interact and exchange with staff market knowledge and solutions providers.

June 2020, staff will report back with a set of procurement policy enhancements with circular economy criteria supported by costing information, guidelines, toolkits and indicators to implement the policy.

Project timeline



City of Richmond



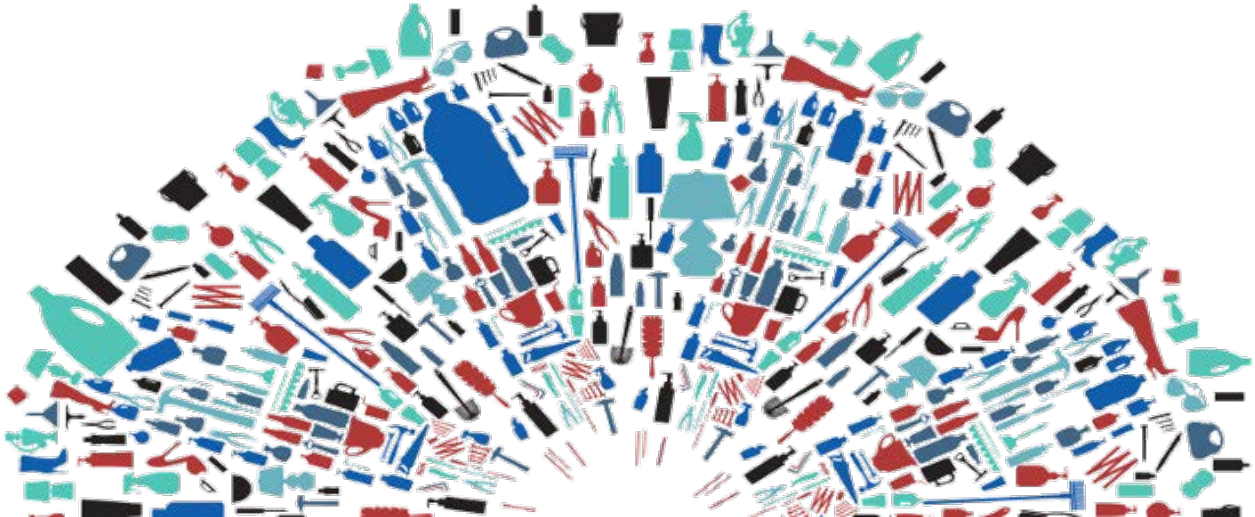
The City of Richmond implemented the Environmental Procurement Policy & the Environmental Purchasing Guide by 2000

In 2015, the City integrated sustainable criteria into the procurement policy, which has reduced environmental impacts

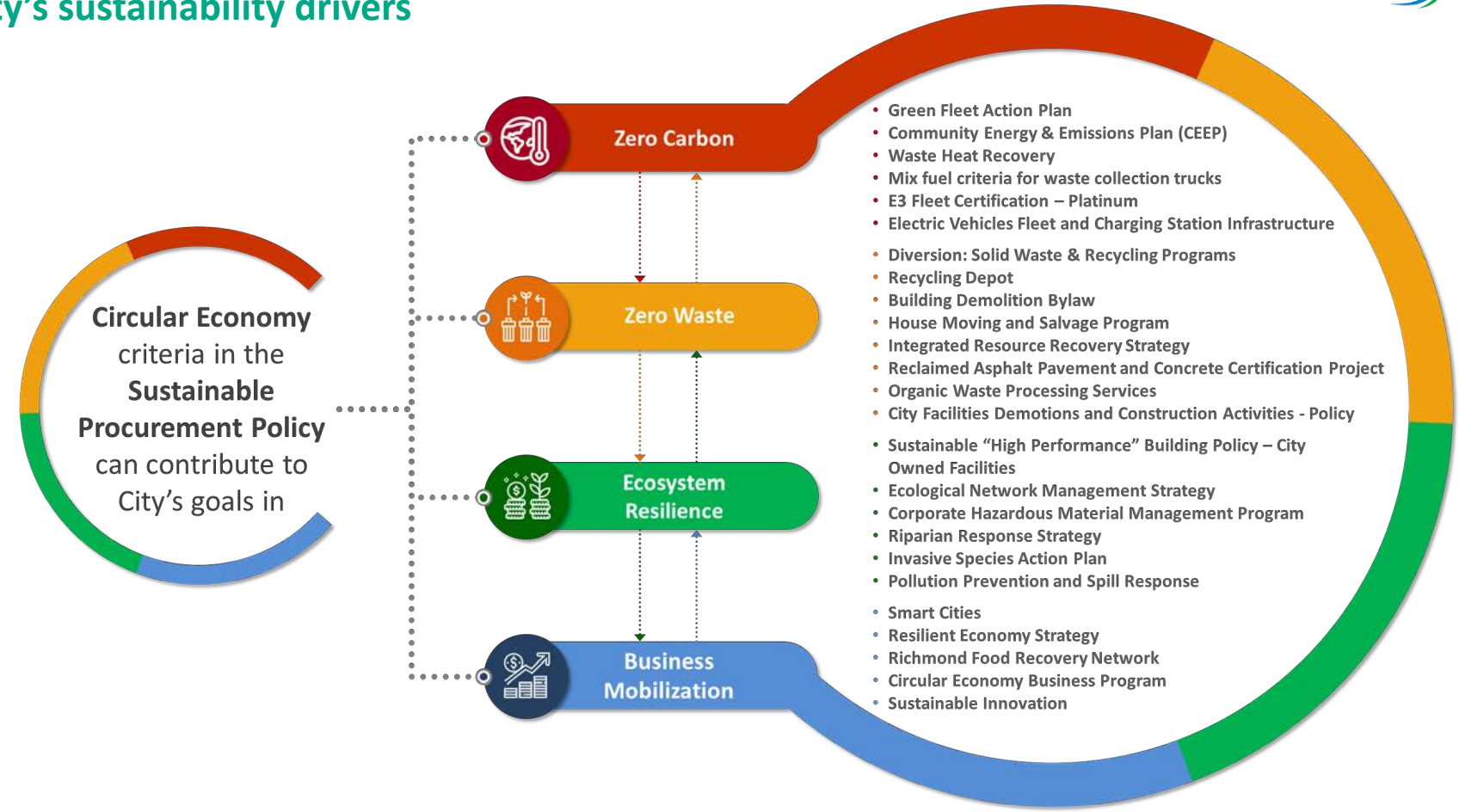
In 2019 City's Council approved a plan to integrate circular economy practices into the City's procurement process

Public Procurement Opportunity in Canada

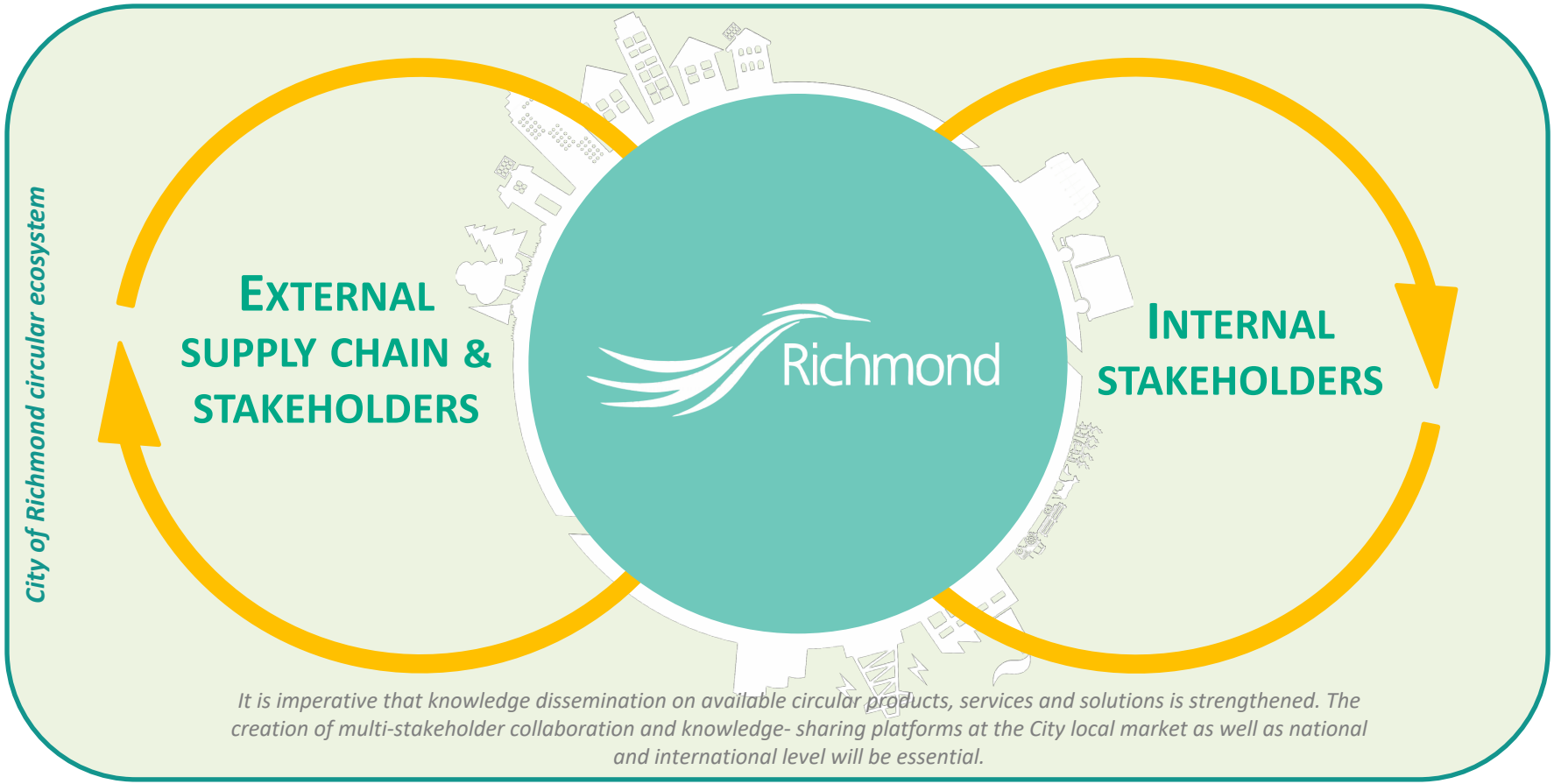
- **15%**: average percentage of a country's GDP spent on procurement
- **$200 billion**: Canada's spend on procurement
- **$160 billion**: local governments combined spend
- **$3.2 billion**: Government of British Columbia spend
- **$130 million:** City of Richmond spend with external suppliers in 2018



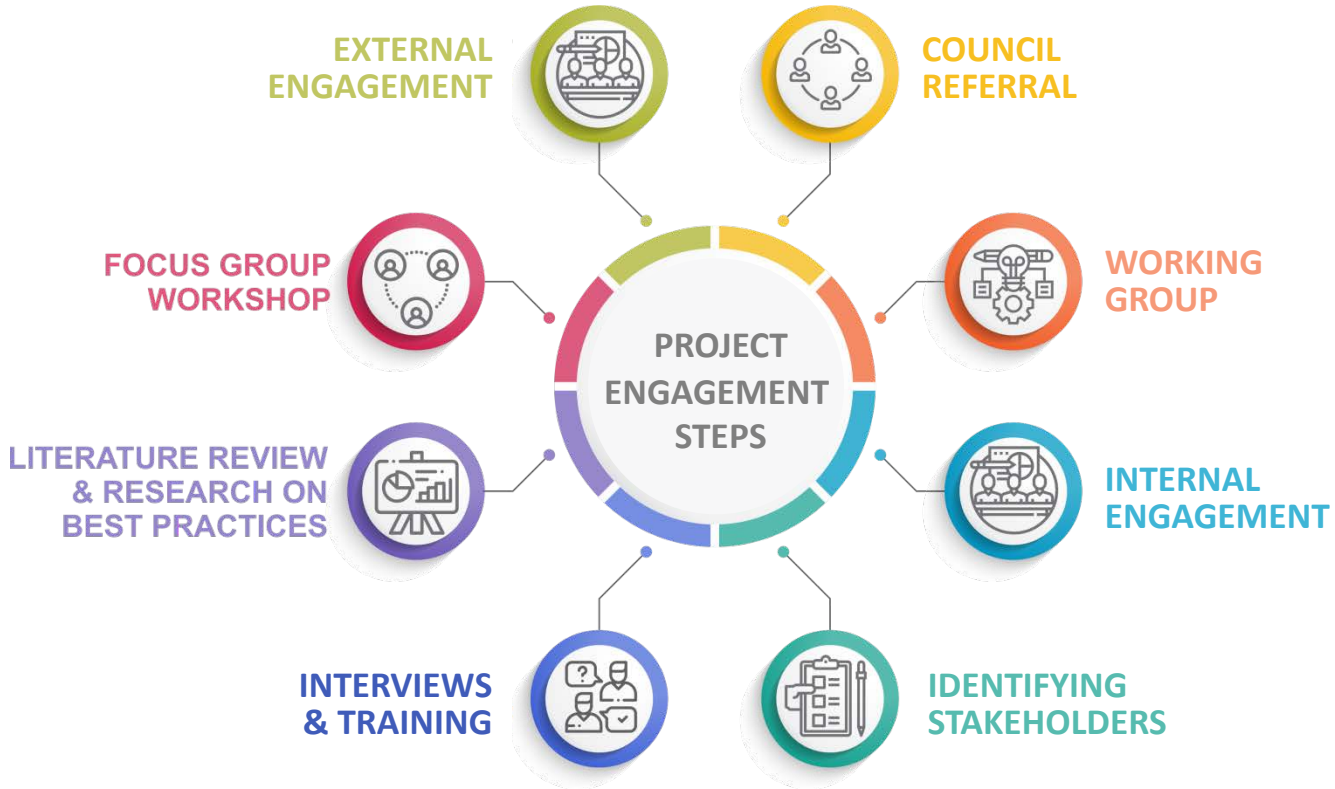
City's sustainability drivers



External Collaboration Is Crucial



Internal and External Engagement Steps

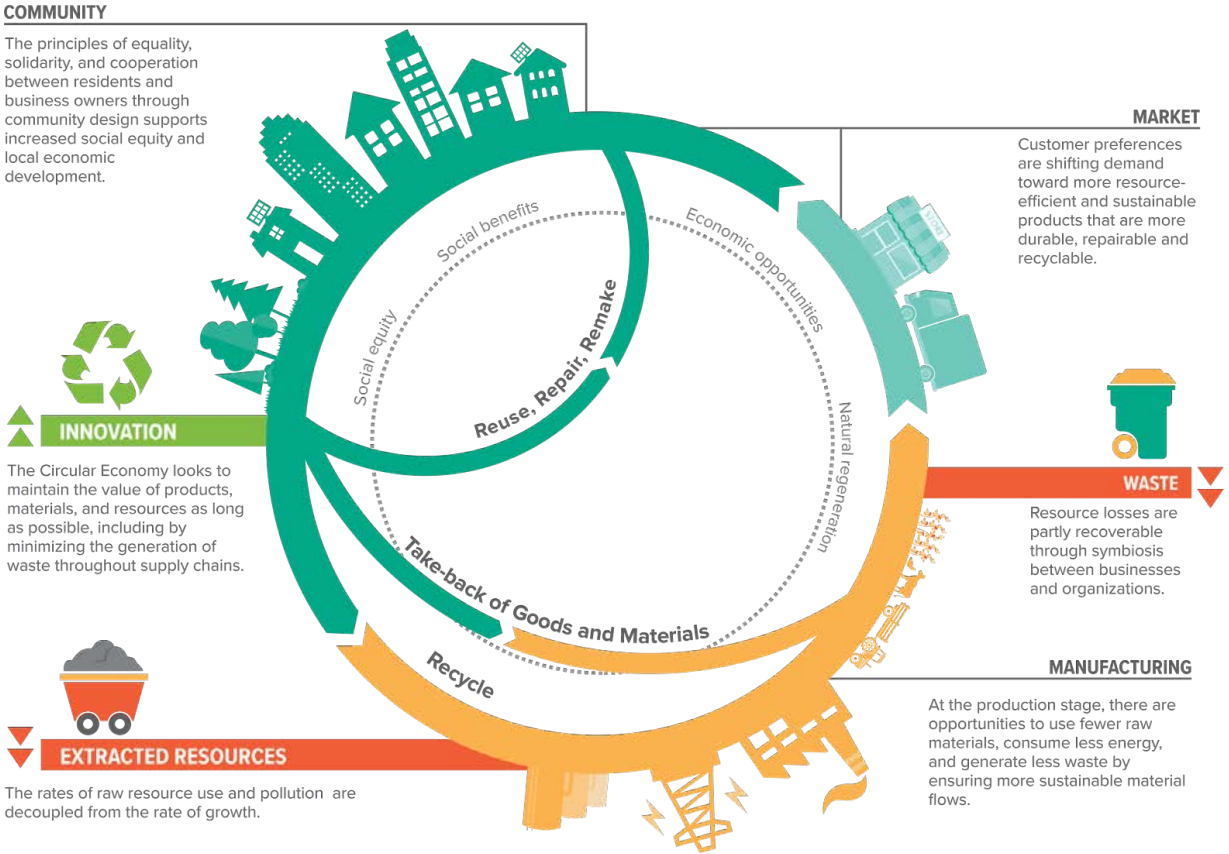


Internal Engagement Processes

Goals

- Provide overview of the Circular Economy, and key initiatives in other jurisdictions worldwide
- Educate staff on the circular economy vision and principles
- Create awareness of the project and the issues regarding circular procurement activities
- Promote communication and set expectations
- Begin co-creation of a map of circular economy procurement initiatives in City of Richmond
- Identifying what can be implemented when integrating the circular criteria in procurement activities

Why a Circular Economy



City of Richmond - Circular economy definition and infographic

The City of Richmond's vision for the circular economy is to maximize the value of resources by design through responsible consumption, minimizing waste and reimagining how resources flow in a sustainable, equitable, low-carbon economy.

Sector and Categories to organize circular procurement tools, guide and pilot projects

Construction and Infrastructure

- New construction (office/facility buildings)
- Demolition
- Renovation
- Paving
- Pump stations
- Park development
- Streetscape and boulevards
- Equipment and machines
- Public lighting
- Sanitary Sewer
- Outside furniture
- Roads/Laneways
- Dikes
- Multiple Use Paths
- Replacement of mechanical systems
- Roofing
- Utility infrastructure works
- Furniture

Fleet

- Heavy-equipment
- Passenger vehicles
- Trucks
- Fuels
- Garage and maintenance
- Tires
- Insurances

Services

- Consultants
- Catering
- Food
- Accommodation facilities
- Innovation
- Learning

IT

- Audio-visual equipment
- Networks infrastructure
- Telephone services
- Telephone equipment
- Data centre infrastructure
- Computers
- Software
- Print services

Facilities, Maintenance & Operations

- Pools and arenas
- Communities centres
- Preservation works
- Building renovation
- Renovations/ Demolition
- Office furniture
- Offices supplies
- Facilities lighting system
- Cleaning services
- Building management
- HVAC, machines and equipment
- Work-wear services/PPE
- Winter maintenance
- Cleaning public spaces
- Green spaces maintenance
- Outside furniture
- Pavement
- Traffic control system
- Public lighting
- Dikes / Pump stations
- Sewer

Circular Principles

A. Designing out waste & pollution by prioritising regenerative resources

A1. Minimize the release of toxins and pollutants and hazardous materials and waste

A2. Minimize waste generated by end-of-life of products and packaging

A3. Increase waste diversion

A4. Increase recycle content

A5. Increase energy and water efficiency

A6. Prioritize renewable energy

B. Keeping products and materials in an operational use

B1. Consider alternatives to product ownership

B2. Maximize the useful life of materials through resource recovery

B3. Prioritize products that are designed for maximum useful life and/or be easy to maintain, repair, upgrade, refurbish or remanufacture

B4. Prioritize sharing platforms to rent, share, swap or lend to promote maximum usage

B5. Require suppliers to offer longer product warrantees (longevity, reliability, and reusability)

C. Regenerating natural systems and mitigating climate change

C1. Minimize environmental footprint and impacts

C2. Protect habitat and functioning ecosystems that provide critical services to the environment

C3. Minimize the use of raw materials

C4. Introduce fully renewable, or recyclable materials that can be used in consecutive life-cycles

C5. Reduce both operational and lifecycle GHG emissions

D. Co-collaborating to create innovation and joint value

D1. Promote innovation and proactively seek opportunities for cross-functional collaboration

D2. Support staff training and continuing education related to the circular economy

D3. Support staff time contributing to circular initiatives and pilot projects

D4. Collaborate with relevant partners and sectors to help drive innovation towards more circular services, products, and mutually beneficial solutions

E. Maximizing economic value for money

E1. Reduce costs through efficiencies

E2. Identify cost savings opportunities throughout product life-cycle

E3. Think beyond purchase costs by internalizing environmental externalities and cumulative cost impacts

E4. Consider productivity, efficiency and capacity utilization when evaluating alternative products and services

E5. Promote green jobs created and secured

Cities are members in a network to pre-competitive collaborations

Roadmaps have short and long-term goals to develop and implement all cities tools and metrics to guide circular procurement

Staff continuous education and training in the circular economy is critical for cities achieve goals and results

The circular economy criteria into the procurement policy is outlined by cities circular economy ambitions

Circular procurement tools are not standard and need to be developed by sector, areas or products

Cities have a dedicated interdepartmental team to develop, implement and assess the roadmaps actions and results

Periodical engagement with key stakeholders, vendor, suppliers and the markets need to be planned and do as part of the procurement activity

All cities have adapted and developed the own circular economy concept and principles to integrate circularity across cities activities

Procurement activities does not start in the procurement department. Cities engage internal client to design projects and operations using circular criteria

Cities shared with staff circular economy information, reports, tools and guides applied in the procurement activities. All the material is shared on CoR SharePoint

External engagement process: Vendors and suppliers workshop

45 companies who attended the workshop

Goals

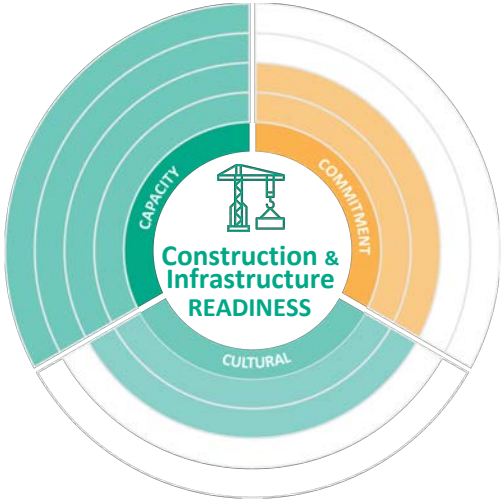
- Create a new awareness about the City's circular economy initiatives and expectations for future participation;
- Identify and explore opportunities on how essential products and services can incorporate tangible circular economy outcomes;
- Promote closer relationships with City suppliers to encourage the sharing of ideas, market knowledge and solutions.

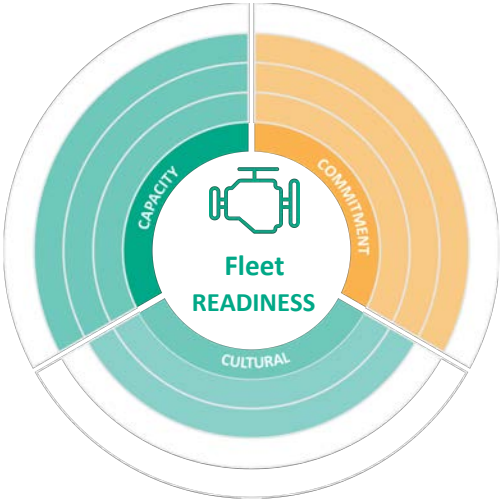
External Readiness

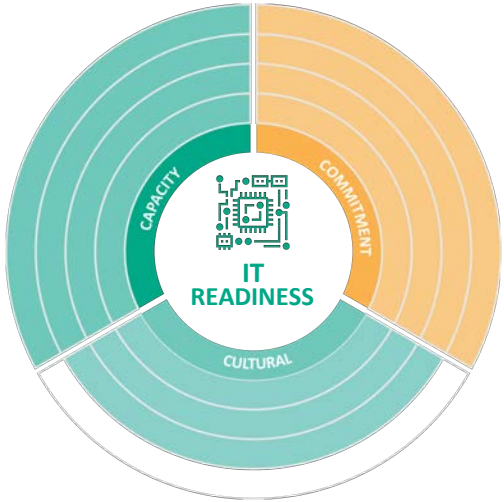
All conversations with key external stakeholders show a moderate to very positive attitude to support City transition to the circular economy. Although, each sectors have a different level of readiness, it is possible to include into City procurement activities circular criteria.

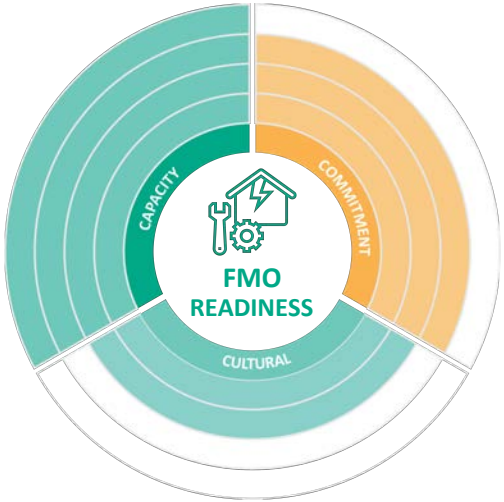
There is several opportunities within the available budgets to become more circular. However, previous the procurement in itself, City need to ignite conversation and engagement process with the market to understand open opportunities to put a circular decision into practice. The external engagement process shows the starting the conversation about City ambition, the suppliers and vendors already has a positive reaction to think about the possibilities.

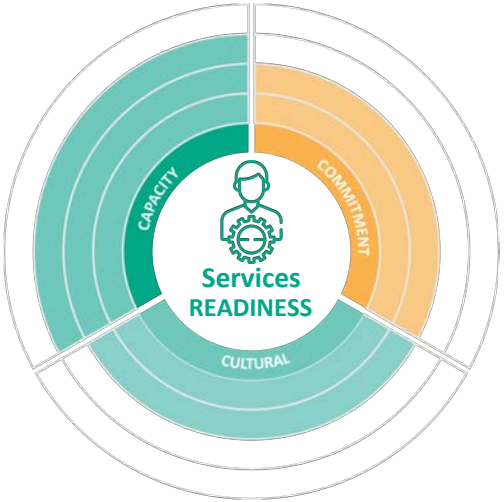
The discussions in the engagement process shows that it is not yet automatic for City staff and external stakeholders include circular perspective in the procurement process. The implementation plan need to start from quick wins to developing successfully and innovatively a number of good procurement cases to accelerate City transition.







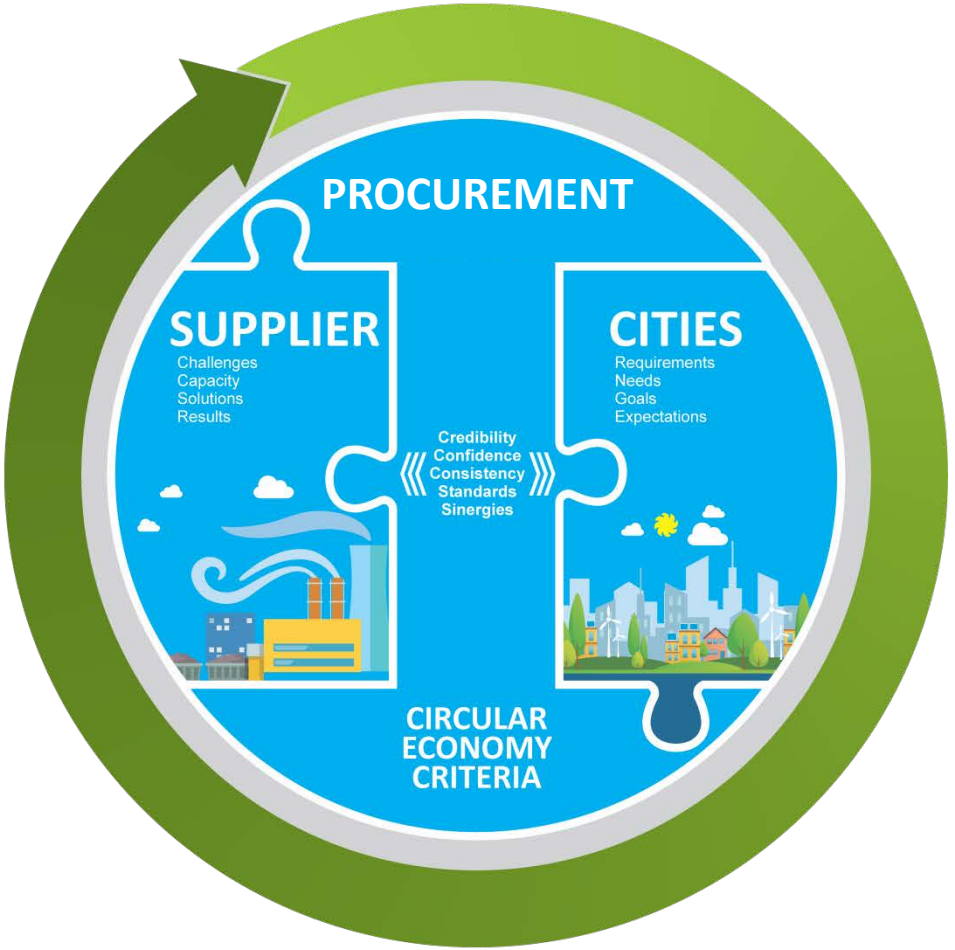




FMO= Facilities, Maintenance and Operations

Identified Barriers

- **High truthful investment costs** are mentioned in the contexts of a supporting goals and activities for circular economy procurement activities
- **Low virgin material cost** and even lower end-of-life price is a significant barrier to implement circular economy criteria into the procurement activities
- **Low number of business case and no local pilot project and case studies** as a reference to stakeholders to include circular economy principles in procurement
- **Insufficient, incomplete, or low communication** (the pre-competitive communication and engagement are been identified as a key approach to accelerate the transition to the circular economy model)
- **Limited budget and funding is the assumption of stakeholder**



circulareconomy@richmond.ca

RESOURCES

CircularProcurement.ca

RESOURCES

Membership Invitation

Jo-Anne St.Godard
joanne@rco.on.ca

/company/Recycling-Council-of-Ontario

/RecyclingCouncilofOntario

/RecyclingCouncilofOntario

@RCOntario