Australia – Japan business collaborations in the waste sector

10th November 2021

By TATS KATO (Head of Project Origination | Sojitz Australia)

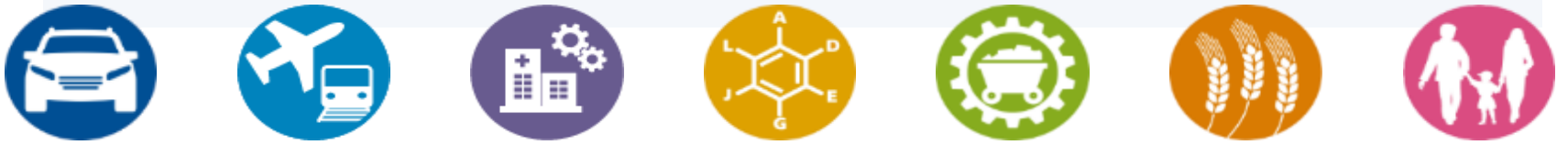
Sojitz Global Business

Sojitz is a leading ESG investor & one of the largest Japanese trading companies listed on Tokyo Stock Exchange (TSE/TYO) with a worldwide network comprising of approximately 400 group companies operating in over 50 countries.

82 offices ・ **420** affiliates ・ **22,363** employees worldwide

(as of 30th September 2021)

Creating Services/Solutions



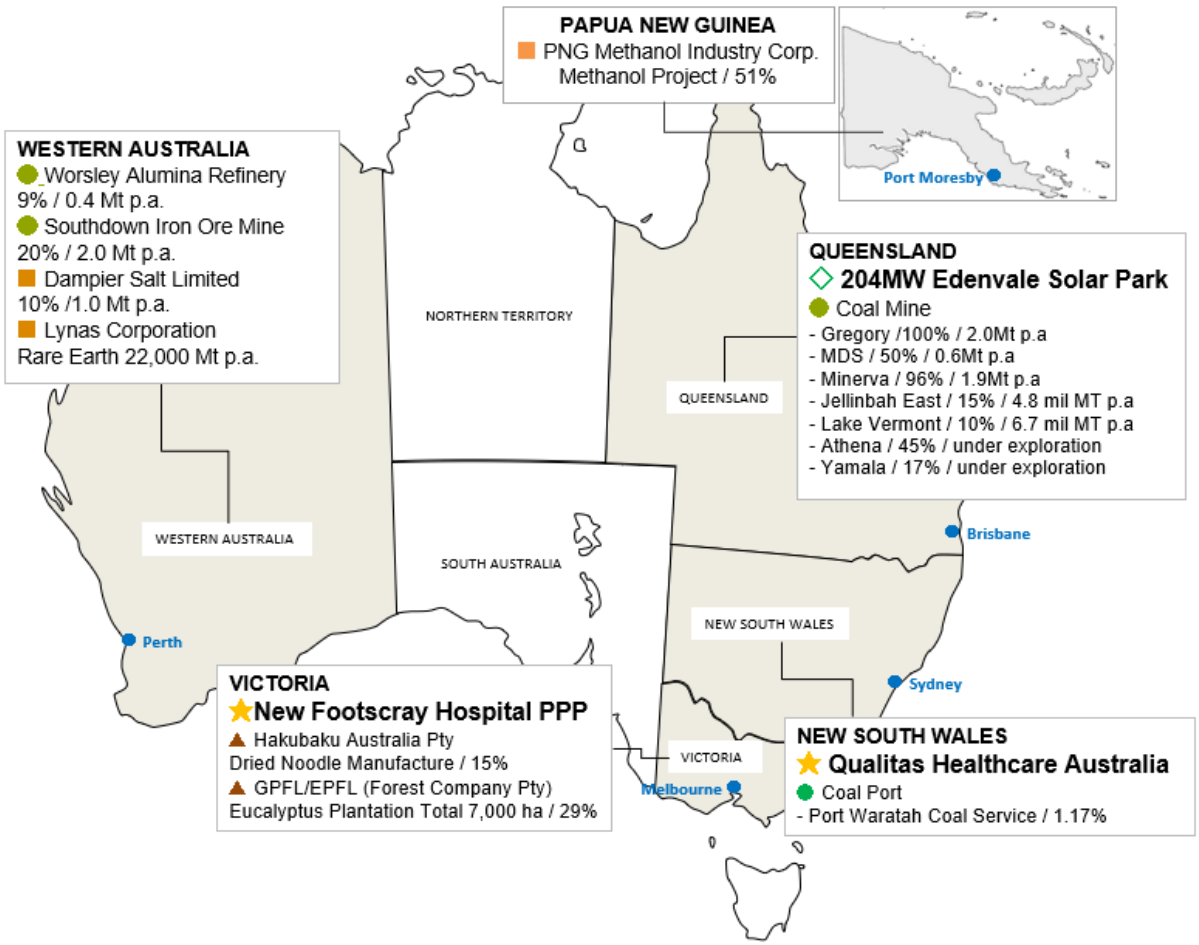
Automotive | Aerospace & Transportation | Infrastructure & Healthcare | Chemicals | Metals・Minerals・Recycling | Consumer Industry & Agriculture | Retail & Consumer Service

Financial | Network | Human Resources | Business Know-how

Copyright © Sojitz Corporation 2021

Sojitz AUS & PNG (since 1957)

Renewable Energy	Developments & investments into large scale solar & wind projects in NEM and WEM with bankable long-term (corporate) PPAs.
Medical Infrastructure	Investments into hospital PPPs, private clinics and MedTech.
Resources Recycling & Recovery	Investments into Material Recovery Facility (MRF), Food Organics & Garden Organics (FOGO), Energy from Waste (EfW) projects.
Coal	Export of various quality Australian coal to Japan and other countries
Steel	Import and distribute steel products to Australian steel fabricators
Iron Ore	Export of iron ore to Japan and other countries
Non-Ferrous	Export Alumina to Middle East, Africa and Asian countries
Industrial Minerals	Export of titanium and zircon ore to Asian countries
Chemicals	Import/export of organic & inorganic chemicals; Import plastics from Asia/Japan
Foodstuffs	Export of wheat, beef, livestock and food products to Japan and Asian countries
Forest Products	Export of woodchips from Australia and logs from PNG to Japan and Asian countries



Copyright © Sojitz Corporation 2021

Metals & Mineral Resources sectors (past)

Coal Related Business

- ✓ Thermal Coal trading
- ✓ Coking Coal trading
- ✓ Coal mining operation

Metal Related Business

- ✓ Metal One business
- ✓ Iron-Ore trading
- ✓ Iron-Ore mining

Copyright © Sojitz Corporation 2021

Circler Economy Business Model & Strategy

✓ Carbon Credit Transaction (e.g. ACCUs)

Coal Related Business

- ✓ Thermal Coal trading
- ✓ Coking Coal trading
- ✓ Coal mining operation

- ✓ Biomass Fuel Manufacturing
- ✓ Fly Ash Trading

Metal Related Business

- ✓ Metal One business
- ✓ Iron-Ore trading
- ✓ Iron-Ore mining

- ✓ Metal Recycling
- ✓ ITAD Service
- ✓ Lithium-ion battery

CE Related Business

- ✓ Waste Plastic Recycling
- ✓ Waste Organic Recycling
- ✓ Waste to Energy
- ✓ Hydrogen / Ammonia
- ✓ SAF

Copyright © Sojitz Corporation 2021

National Waste Policy Action Plan 2019

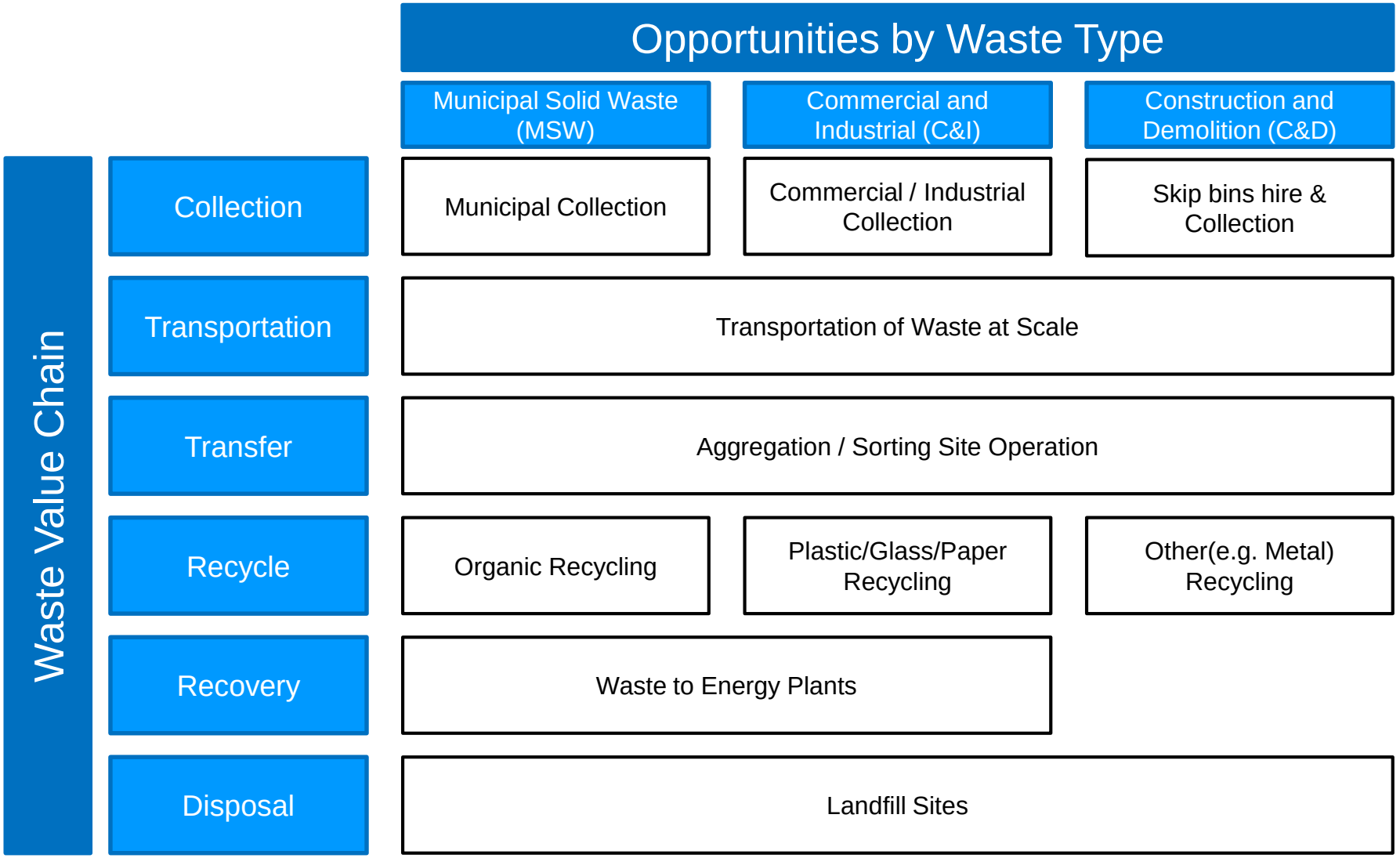
National targets

1. Ban the export of waste plastic, paper, glass and tyres, commencing in the second half of 2020
2. Reduce total waste generated in Australia by 10% per person by 2030
3. 80% average resource recovery rate from all waste streams following the waste hierarchy by 2030
4. Significantly increase the use of recycled content by governments and industry
5. Phase out problematic and unnecessary plastics by 2025
6. Halve the amount of organic waste sent to landfill by 2030
7. Make comprehensive, economy-wide and timely data publicly available to support better consumer, investment and policy decisions

Note: All targets will be measured against baselines in the 2018 National Waste Report

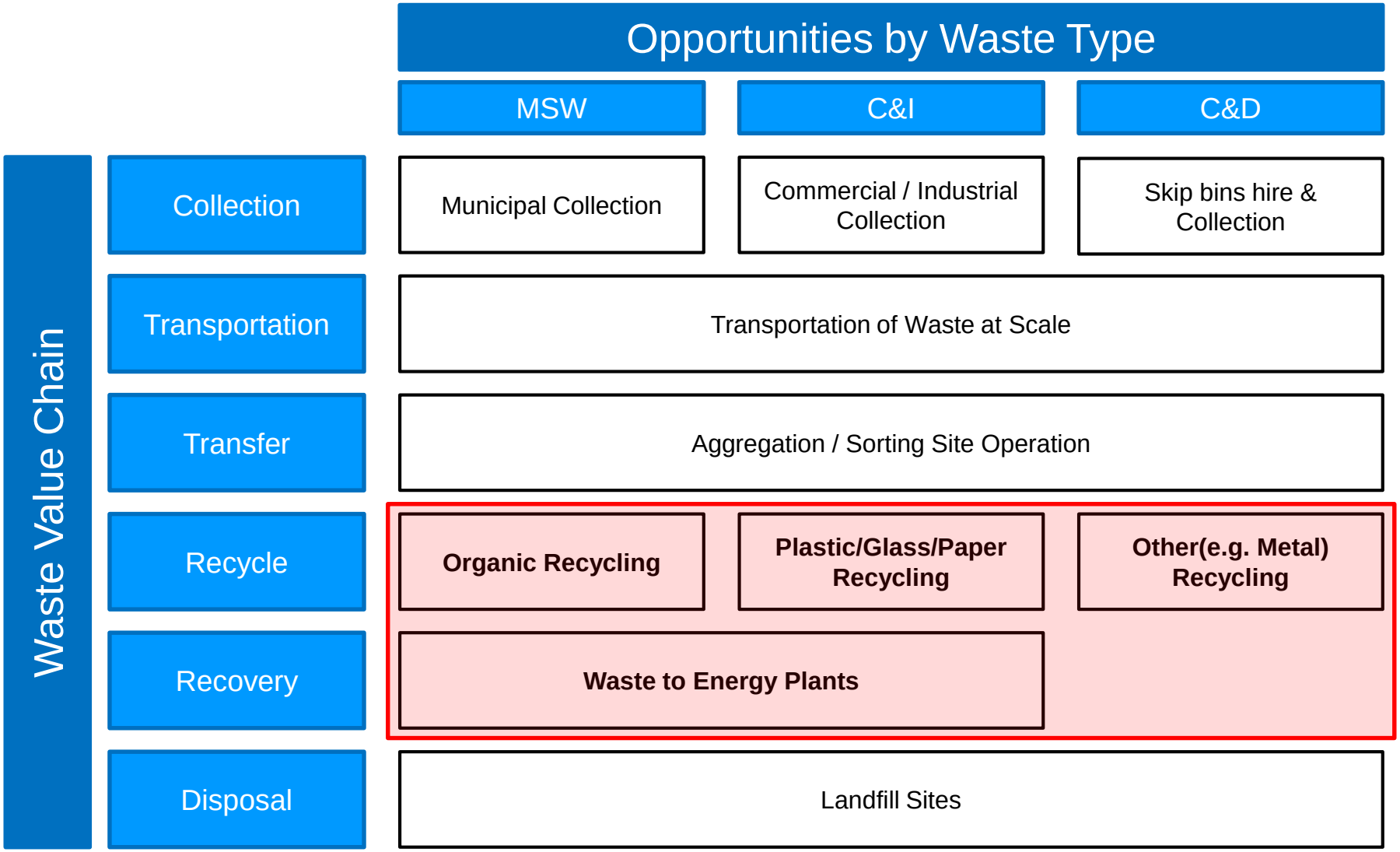
Copyright © Sojitz Corporation 2021

Waste Value Chain



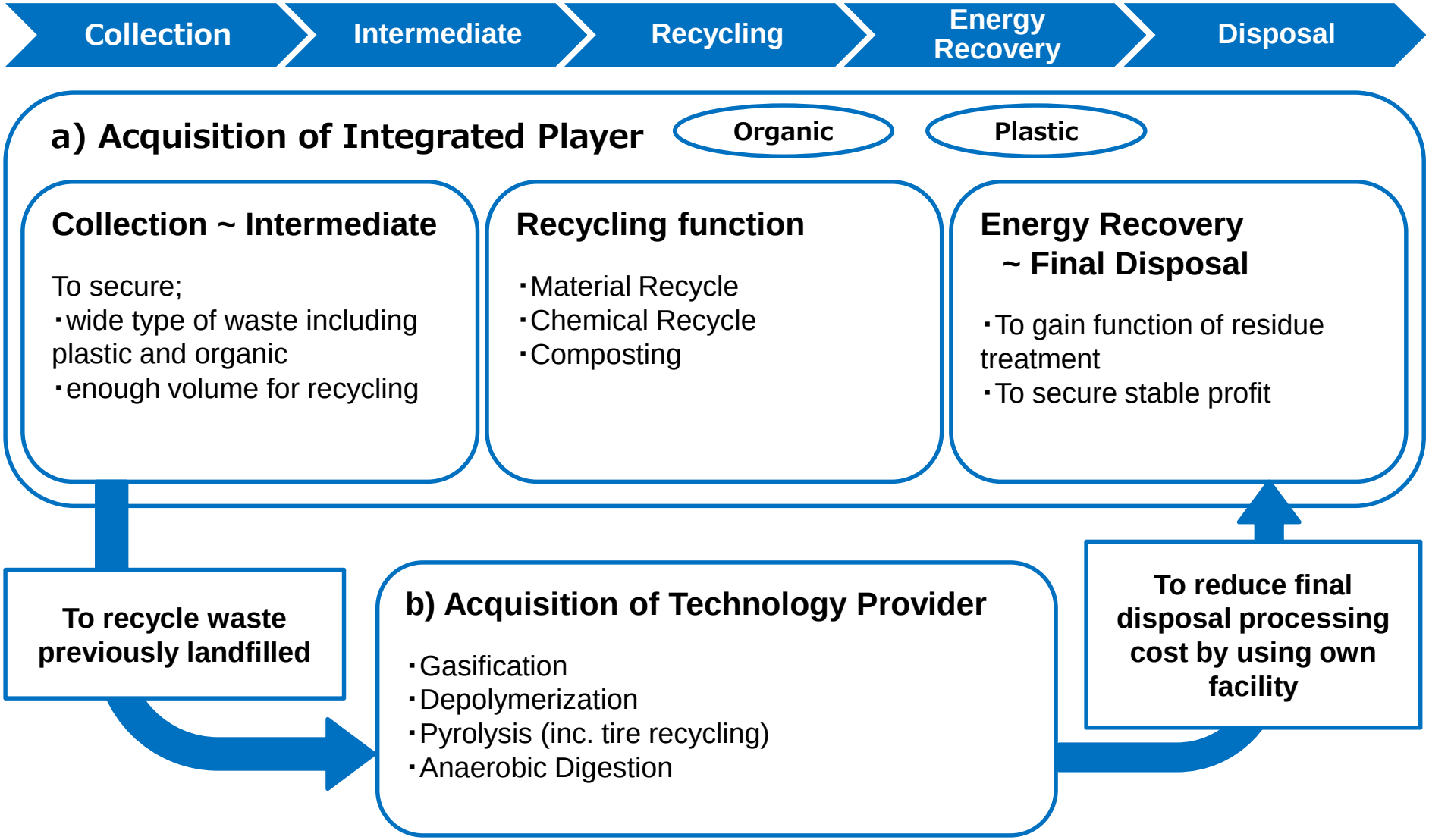
Copyright © Sojitz Corporation 2021

Opportunities in the Australian Waste Sector



Copyright © Sojitz Corporation 2021

Sojitz Strategy and Market Approach



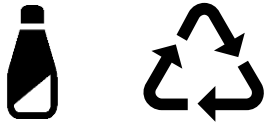
Copyright © Sojitz Corporation 2021

Conclusions

Based on the changes in the global and domestic waste market and a growing social awareness of economic, social and environmental challenges, we believe that there are opportunities for Australian and Japanese companies to collaborate in the Australian waste sector. The opportunities include;

Material Recycling
(e.g. plastics, tyres, paper and glass)

- Material Recovery Facilities (MRFs)
- Gasification
- Pyrolysis
- Depolymerization



Energy Recovery

- Energy from Waste (EfW) facilities

Organics Processing

- Composting
- Anaerobic Digestion

Others

- E-waste and metals recycling
- Economy-wide and timely waste data platform
- Australian carbon credit units (ACCUs)
- Waste to hydrogen

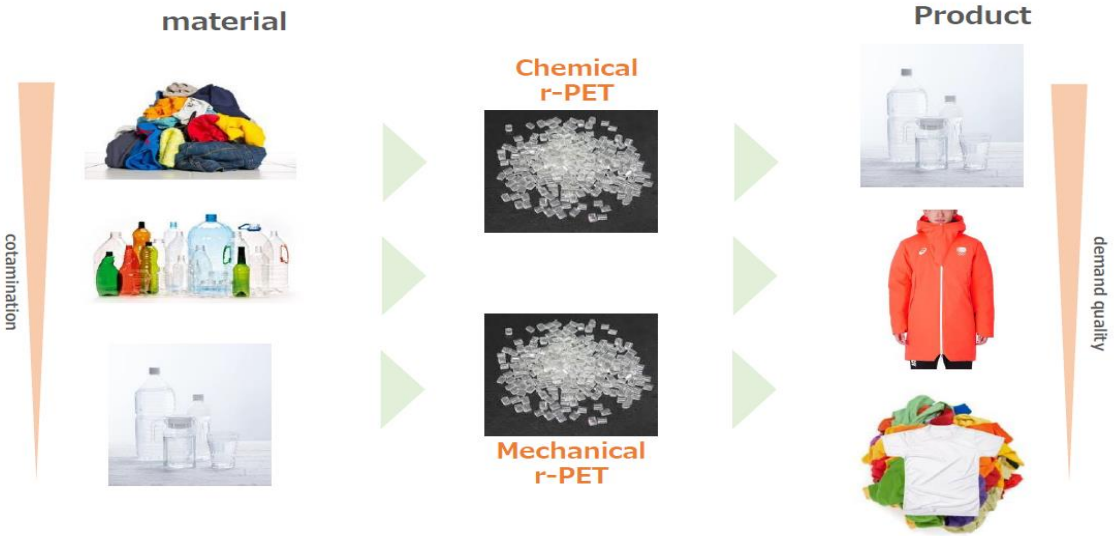
Copyright © Sojitz Corporation 2021

Sojitz Circular Economy Investment 01: JEPLAN & PRT PET Chemical Recycling

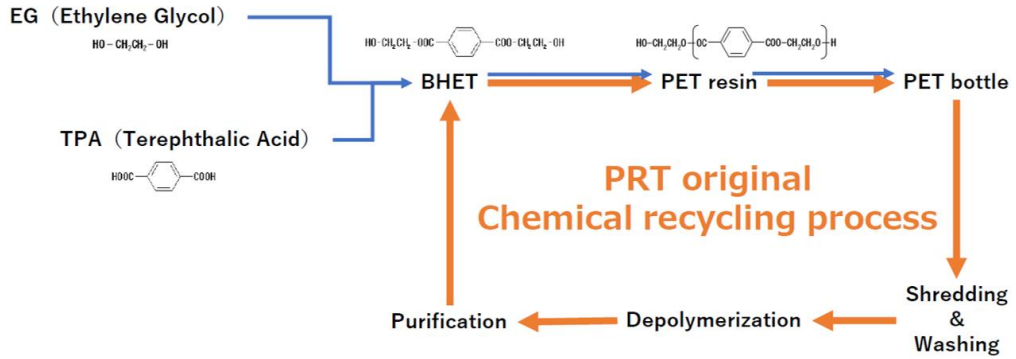
・Sojitz is developing PET chemical recycling businesses with JEPLAN and PRT by utilizing depolymerization technology.
・PRT is the only company that operates PET chemical recycling plant in the world.

JEPLAN
Japan Environment PLANning

PRT
ペットリファインテクノロジー株式会社



■Chemical Recycling Process



Copyright © Sojitz Corporation 2021

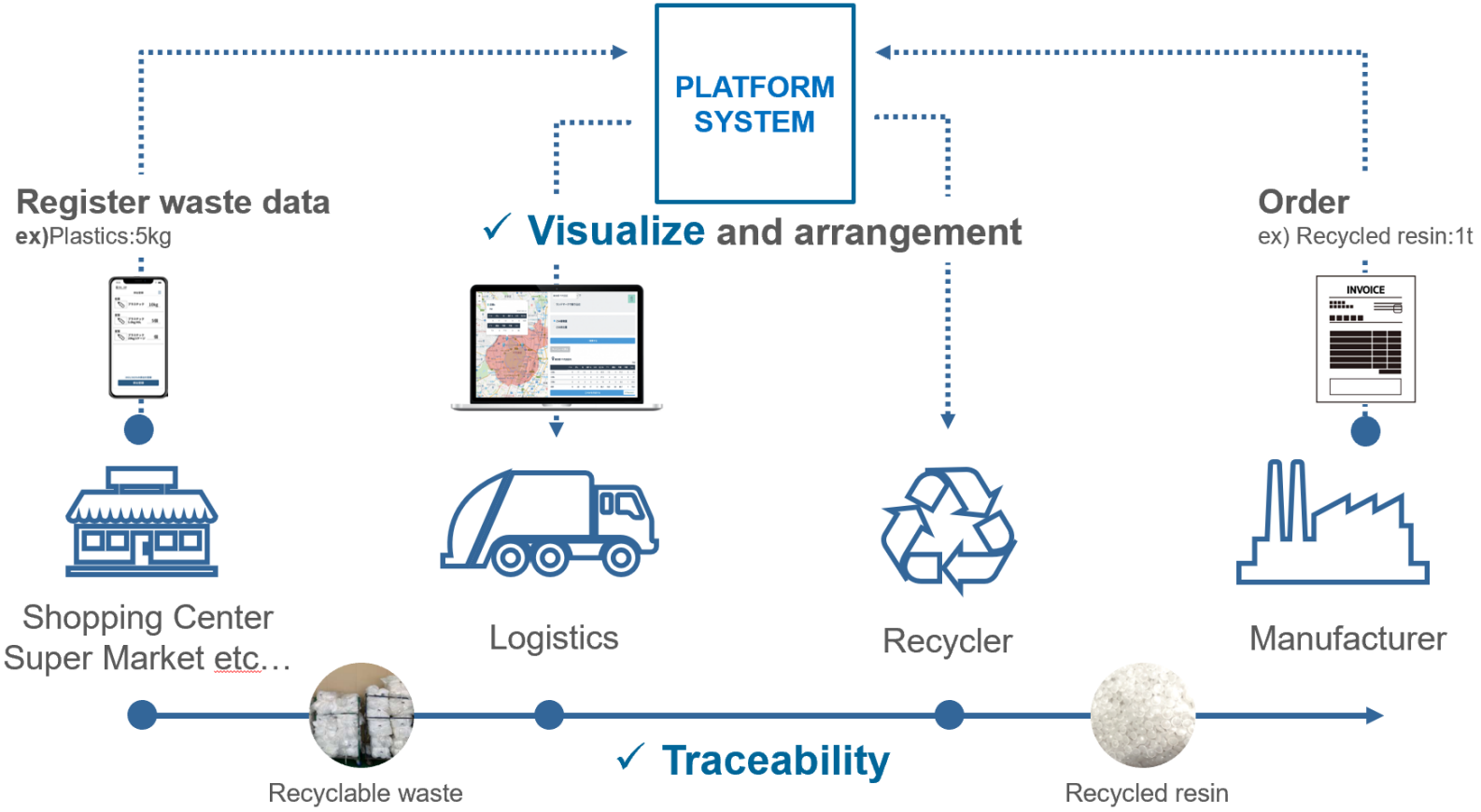
Sojitz Circular Economy Investment 02: TES-AMM Japan Disposal, re-use & recycling of e-waste

- TES-AMM Japan are developing IT Asset Lifecycle Management.
- TES-AMM Japan's IT Asset Disposition (ITAD) services can secure higher data security.

Copyright © Sojitz Corporation 2021

Sojitz Circular Economy Investment 03: RECOTECH Waste Data Platform

・RECOTECH is developing and demonstrating their own waste data platform.
・The platform visualizes the flow and stock of recyclable waste in a particular area and enables users (manufactures) to trace it throughout the recycling chain.



Copyright © Sojitz Corporation 2021

Other recent ESG investments in Australia

204MW Edenvale Solar Park (June 2021)

Project Overview

Location:	Western Downs Region, Queensland
Project Scope:	Solar farm construction, operation, sale of electricity
Ownership:	Sojitz Corporation: 50%, ENEOS Australia Pty Ltd: 50%
Schedule:	June 2021: Construction start 2nd half of FY2022: Operation start

The New Footscray Hospital PPP (March 2021)

Project Overview

Location:	Melbourne, Victoria
Project Scope:	Design, Build, Finance and Maintenance (DBFM)
Partner:	Plenary Health
Schedule:	March 2021: Construction start Sep 2025: Operation start

Copyright © Sojitz Corporation 2021

Contact Details

For further information please feel free to contact:

TATS KATO

Head of Project Origination | Sojitz Australia

kato.tatsuya@sojitz.com

www.sojitz.com/en/

www.linkedin.com/in/tatskato/

Copyright © Sojitz Corporation 2021