



Encontro Técnico
AESABESP

Congresso Nacional
de Saneamento e
Meio Ambiente

A Importância da Gestão de Ativos para a Sustentabilidade Empresarial: Financeira – Ambiental - Social

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Lets make AM Relevant to Sustainability



The role of Maintenance & Asset Management in Sustainability & ESG (Environment, Social, Governance)

OBJECTIVES

- GFMAM society members can enhance visibility for: “The role of Maintenance & Asset Management in Sustainability & ESG”.
- Raise the credibility and relevance of GFMAM/ABRAMAN
- Provide communication opportunity to experts who want to know more about the role of Maintenance & Asset Management in Sustainability & ESG.
- Publication of a document about GFMAM’s view or opinion for the role of Maintenance & Asset Management in Sustainability & ESG.

TYPE 4

Anyone in GFMAM members can join in.

Buckminster Fuller – Spaceship Earth Asset

We humans are unable to take in enough energy through our skins to keep alive.

We need the biological life-sustaining system that the vegetation on land and the algae in the sea, employing photosynthesis, to take the correct amount.

But we can't eat all the vegetation (we just can eat very little of it).

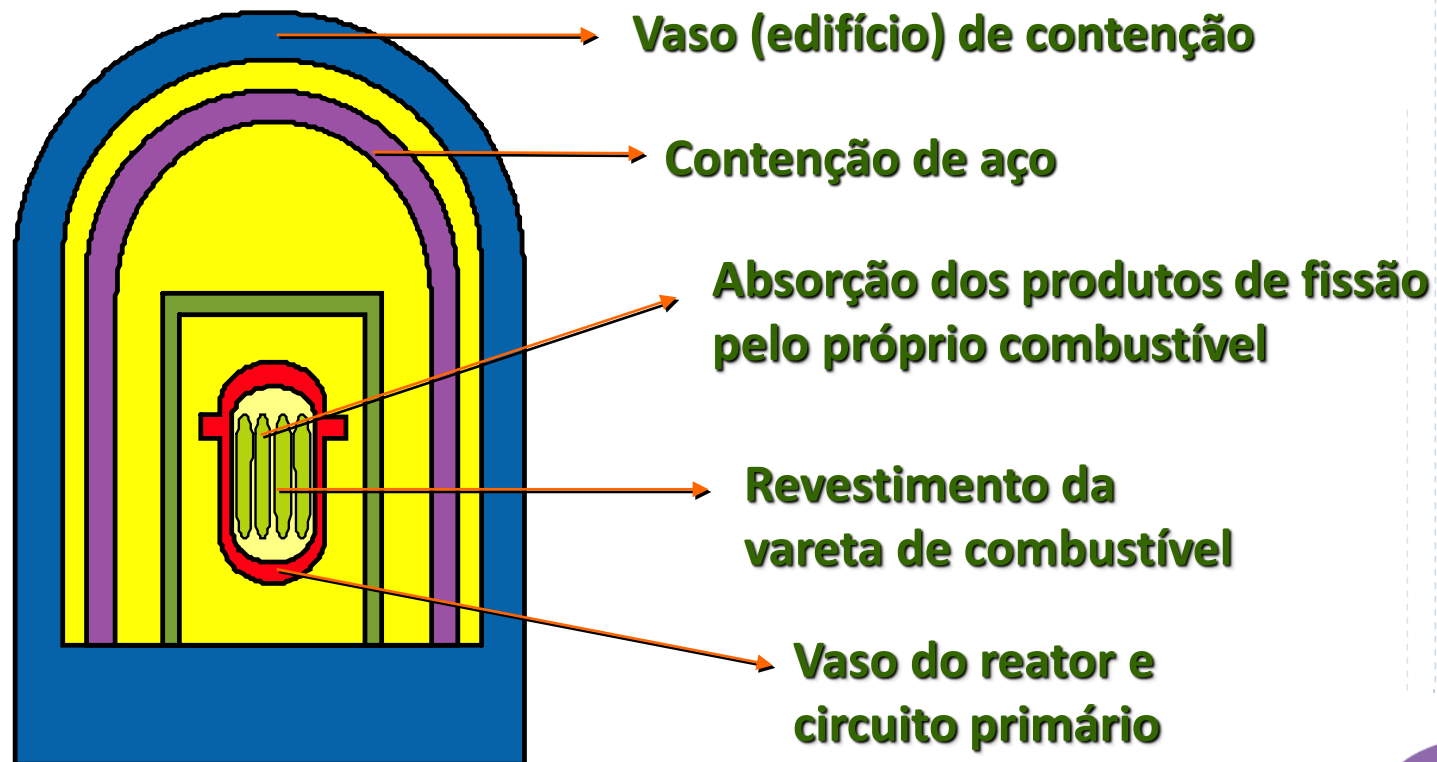
But insects and other animals and creatures can, so that we get energy by taking milk and meat from them.

We have been mis-using, abusing, and polluting the extraordinary Chemical energy-interchanging system for regenerating all life aboard our planetary spaceship.

Ativos de Alta Confiabilidade

BARREIRAS FÍSICAS MÚLTIPLAS CONTRA A LIBERAÇÃO DE PRODUTOS RADIOATIVOS

Relutância em simplificar
(Redundâncias e defesas em
Profundidade)



Porque então isso acontece ?



Foi a “encrenca” da manutenção



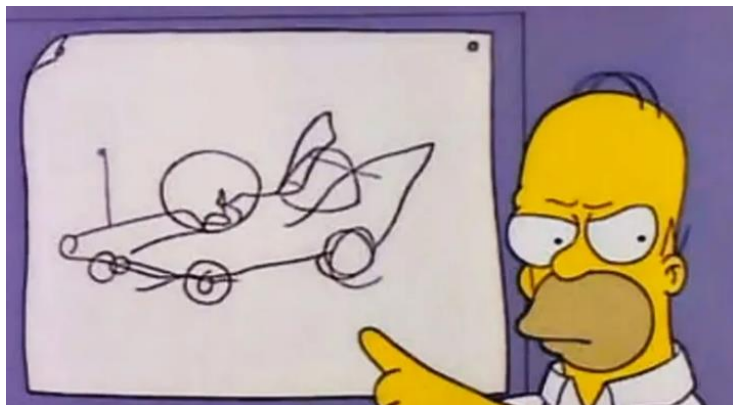
“Quando tudo vai bem,
ninguém lembra que existe.

Quando algo vai mal, dizem que
não existe.

Quando é para gastar, acha-se que
não é preciso que exista.

Porém, quando realmente não existe,
todos concordam que deveria existir.

Avião não cai! É derrubado pelo projeto, operação ou manutenção



Projeto



Operação



Manutenção



Resultado

Evitar:

Gestão de Ativos Classe Mundial

e

Gerenciamento da Manutenção Fundo de Quintal.

3D World



Decarbonisation



Digitisation

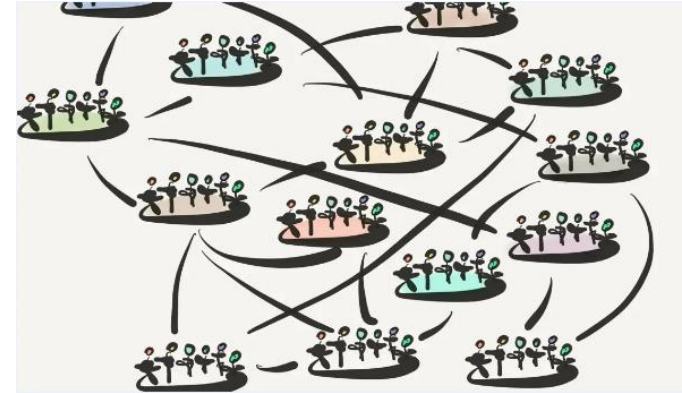


Decentralization

4F Organizations



Fast



Flat



Fit



Free

3P Principles

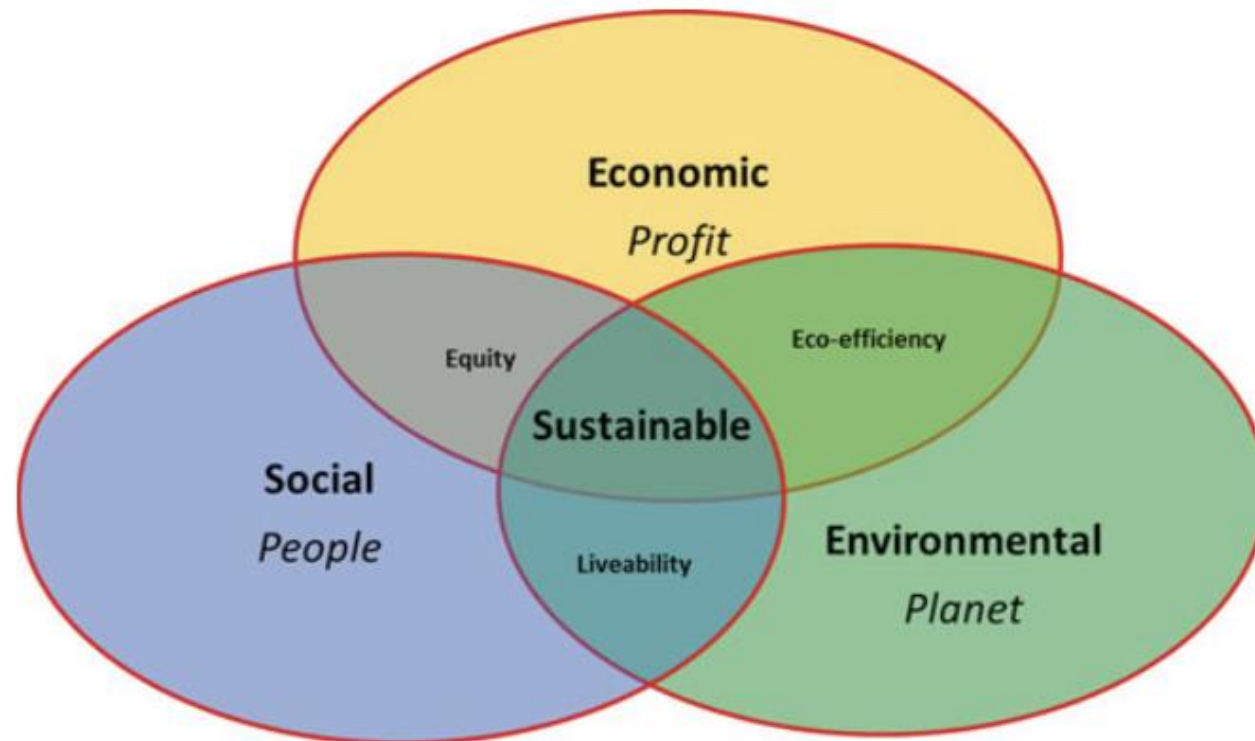


Fig. 2.1 The three dimensions of sustainability

ESG or 3P - People, Planet, Prosperity (original profit).

Business (& Asset Management)'s reason for being

Trends, Environments, Scenarios and Responsibilities

Input



Resources

- Financial
- Natural
- Human
- Values

Execution



Business (*)

Output



Deliveries

- Economic
- Social
- Environmental
- Governance reliability

Stakeholders



Production of Value

(not Value extraction)

(*) Organizations, public and private companies, of any size, sector and nature; governments and institutions

Value Generation x Value Extraction

A growing number of examples show that sustainability initiatives are a great catalyst to creating profit as well as new business opportunities

A model of capitalism should be reinvented (**CONSCIOUS CAPITALISM** – John Mackey et al from Chicago School together with Milton Friedman), so that it rewards value creation, not value extraction.

Achieving this vision is central to our ability to run our businesses profitably and generate long-term value

Reinventing capitalism to reward:

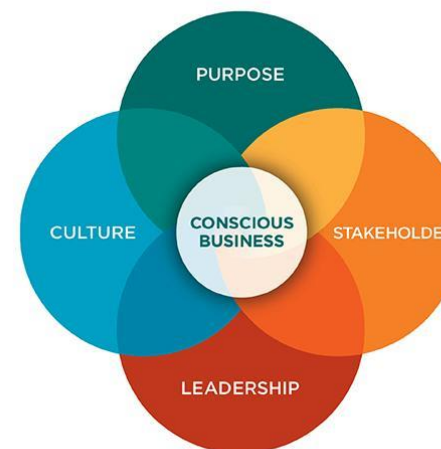
- true value creation, not value extraction;
- building long-term resilience;
- and taking a regenerative approach to business sustainability.

Higher Purpose

Our ambition is to positively change the perception of the IT professional by cultivating environments of trust for all our stakeholders.

Conscious Culture

We are committed to creating a great place to work by promoting and instilling a healthy workplace culture.

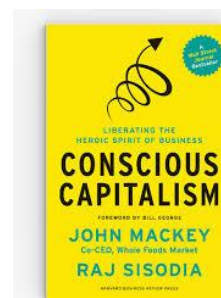


Stakeholder Orientation

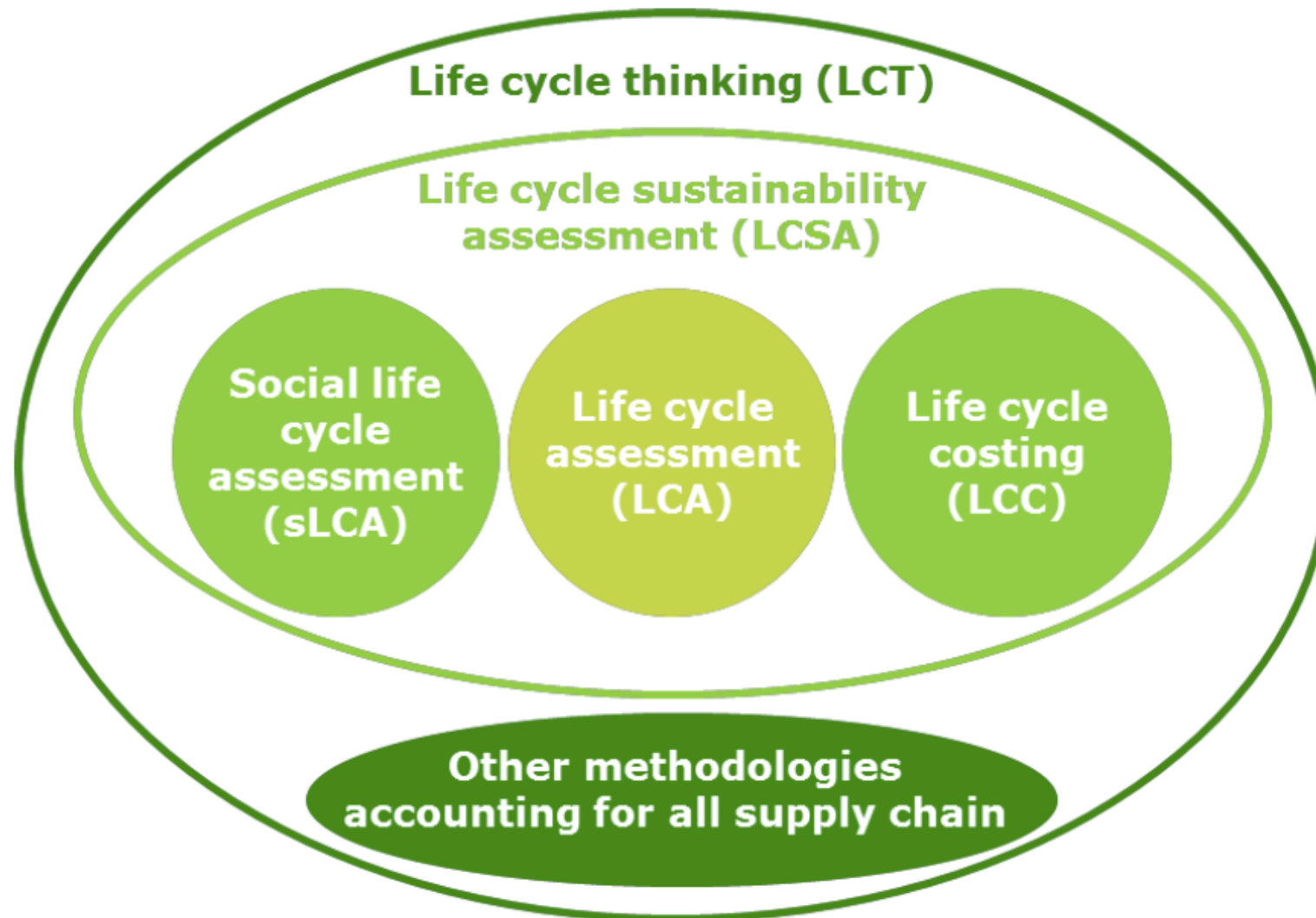
We place an emphasis on creating value for ALL involved in Improving's ecosystem.

Conscious Leadership

We model and grow servant leaders who embrace personal awareness and the guiding principles of our business.



LCT - Life cycle thinking



LCT - Life cycle thinking

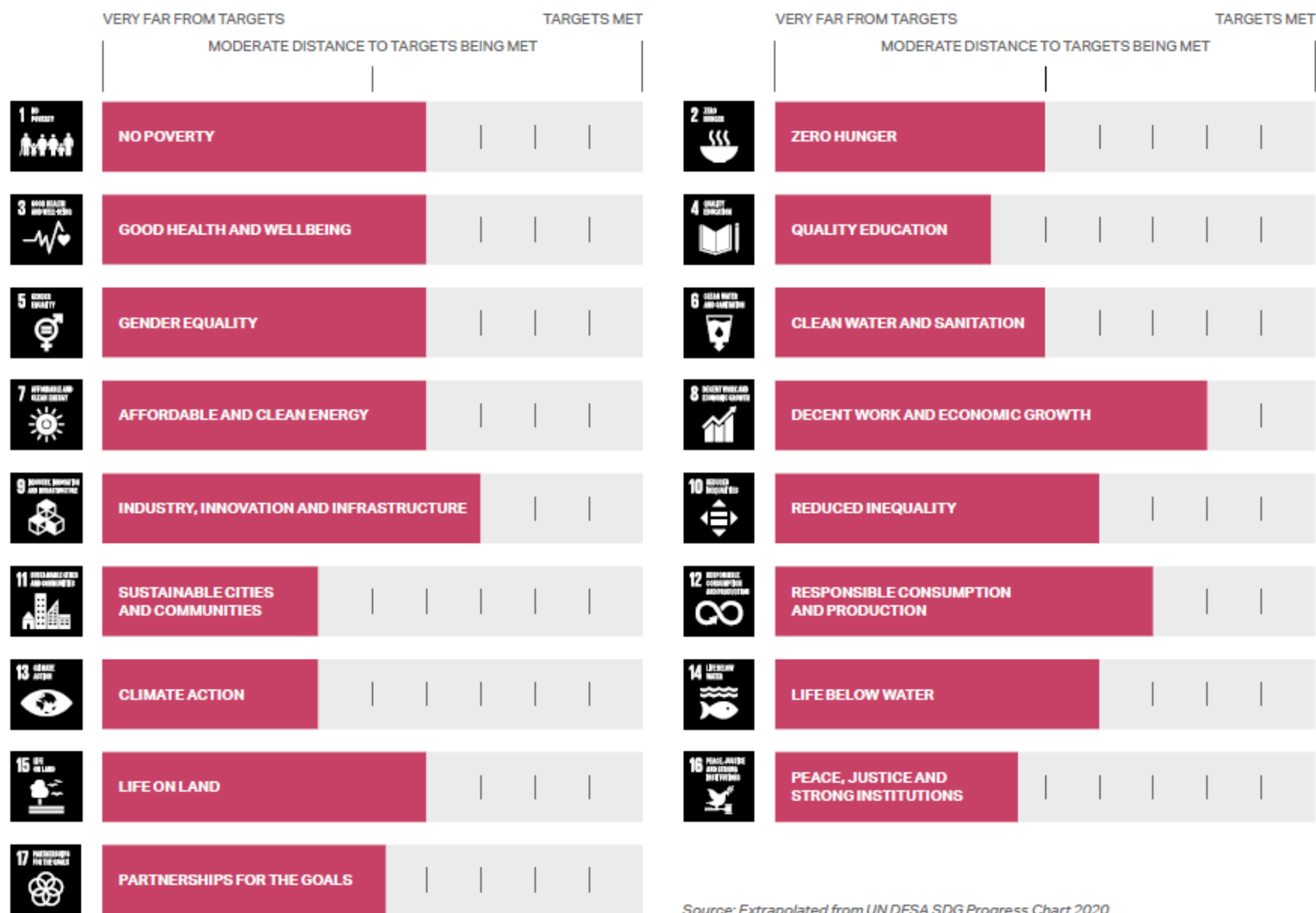


Commitment to the WORLD: the UN SDGs

The **SDGs (Sustainable Development Goals)** represent the **goals of the UN 2030** Agenda, which aims at a profound transformation of the world in which we live. They take into account the Millennium Goals and what has not been achieved. They are the dimension of daring that is necessary to set the world on a sustainable and robust path.

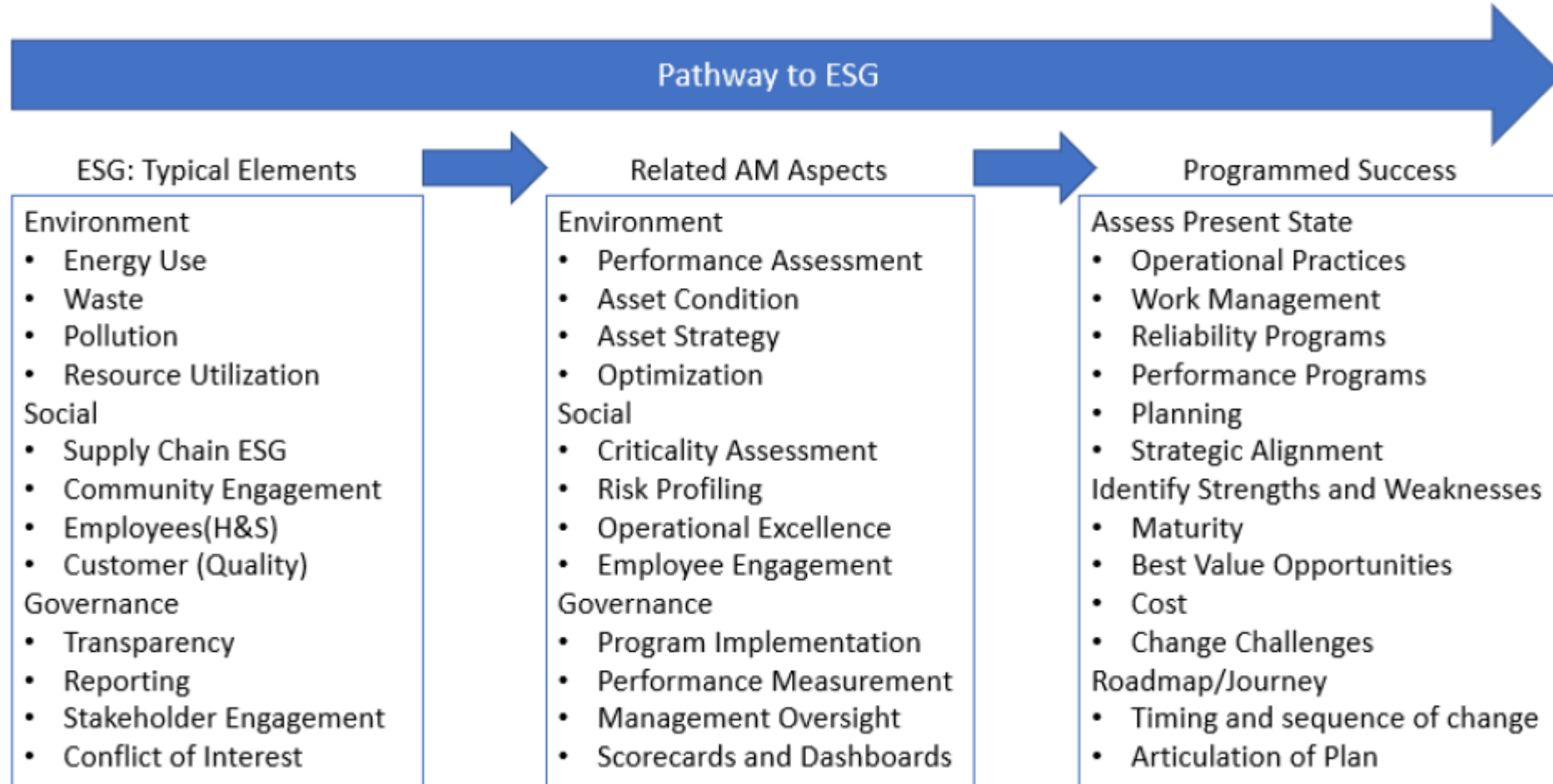


OVERVIEW OF SDG PROGRESS (EXTRAPOLATED FROM UN DESA SDG PROGRESS CHART 2020)



Source: Extrapolated from UN DESA SDG Progress Chart 2020

Mapping ESG to asset management



Source: Asset Management Enabling Environment, Social, and Governance (ESG) Principles, ALLIED RELIABILITY & MACNEIL ASSET PERFORMANCE MANAGEMENT, 2021

Mapping ESG to asset management competencies

ENVIRONMENT	Reduced energy consumption: <ul style="list-style-type: none">• Optimizing processing<ul style="list-style-type: none">• Controls• Monitoring• Analytics• Reducing energy losses<ul style="list-style-type: none">• Losses Monitoring• Efficiency Programs• Optimizing Maintenance• Performance Management	Waste Reduction <ul style="list-style-type: none">• Better use of raw material:<ul style="list-style-type: none">• Controls• Monitoring• Analytics• Enhanced operational practices• Competency based training• Performance Management	Pollution Reduction <ul style="list-style-type: none">• Emissions Reduction<ul style="list-style-type: none">• Controls• Monitoring• Analytics• Maintenance Optimization• Competency based training• Performance Management	Resource Utilization: <ul style="list-style-type: none">• Continuous Improvement• Optimizing Maintenance• Work Prioritization• Risk Identification• Risk Based Decision Making• Climate Adaptation Planning• Performance Management
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Source: Asset Management Enabling Environment, Social, and Governance (ESG) Principles, ALLIED RELIABILITY & MACNEIL ASSET PERFORMANCE MANAGEMENT, 2021

Mapping ESG to asset management competencies

SOCIAL	Employee Health and Safety: <ul style="list-style-type: none">• Criticality Assessment• Asset Condition• Risk Determination• Program Design• Maintenance Strategy Design• Operational Excellence• Performance Management	Customer - Product and Service Quality: <ul style="list-style-type: none">• Criticality Assessment• Asset Condition• Risk Determination• Risk Based Decision Making• Continuous Improvement• Performance Management	Community: <ul style="list-style-type: none">• Criticality Assessment• Asset Condition• Risk Determination• Risk Based Decision• Climate Adaptation Planning• Operational Excellence• Performance Management	Supply Chain: <ul style="list-style-type: none">• Criticality• Risk Based Decision Making• Performance Management
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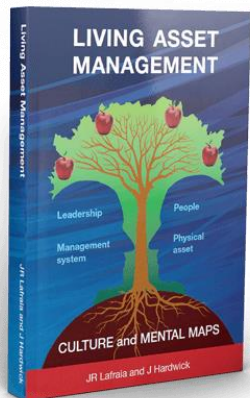
Source: Asset Management Enabling Environment, Social, and Governance (ESG) Principles, ALLIED RELIABILITY & MACNEIL ASSET PERFORMANCE MANAGEMENT, 2021

Mapping ESG to asset management competencies

GOVERNANCE	Transparency: <ul style="list-style-type: none">• Maintenance Strategy Design• Program Design• Risk Based Decision Making• Comprehensive Measures• Data Management	Reporting: <ul style="list-style-type: none">• Independent Report Generation• Automated Reporting• Self-Audit Built into Programs• Rigorous Management Review Process	Stakeholder Engagement: <ul style="list-style-type: none">• Maintenance Strategy Design• Risk Determination• Risk Based Decision Making	Conflict of Interest: <ul style="list-style-type: none">• Risk Based Decision Making• Self-Audit built into core Programs• Data Management• High Degree of Automated Reporting
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Source: Asset Management Enabling Environment, Social, and Governance (ESG) Principles, ALLIED RELIABILITY & MACNEIL ASSET PERFORMANCE MANAGEMENT, 2021

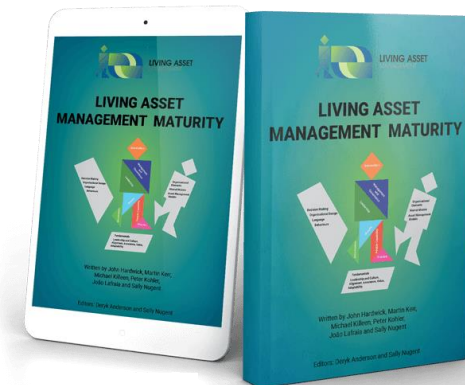
Asset Management Think Tank



The Living asset Management Think Tank Inc. is a group of internationally based, passionate asset management professionals who firmly believe in the value that asset management as a discipline, can provide asset intensive organisations.

The Think Tank provides a forum where fresh ideas and concepts that enhance that value are discussed and social outcomes – for organisations and individuals alike across the globe.

The Think Tank recognises that thought leadership in this discipline is not bounded by geography or professional background and so encourages participation from anyone with a similar passion.



LIVING ASSET
MANAGEMENT



**John
Hardwick**



**Martin
Kerr**



**Michael
Killeen**



**Peter
Kohler**



**Sally
Nugent**



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*Muito
obrigado(a)!*