

Legacy Locker Reuse

Subsea equipment that
doesn't cost the earth

Matt Blair, Subsea Engineering Director

Reuse – what does it mean?

Reuse is a
broad topic

Different
ideas,
perceptions
& agendas

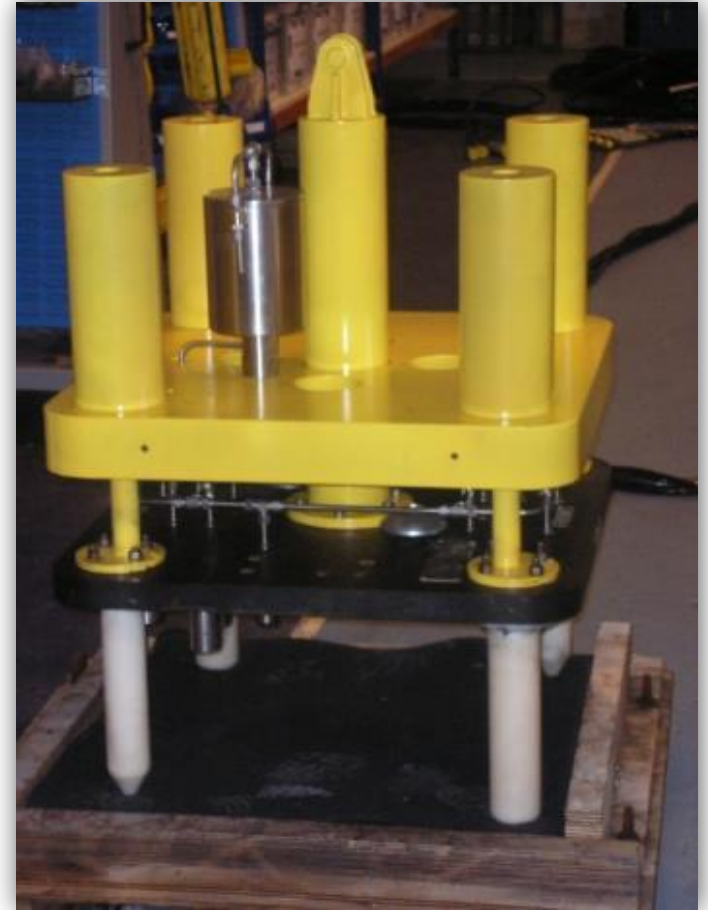
What is your
perspective?



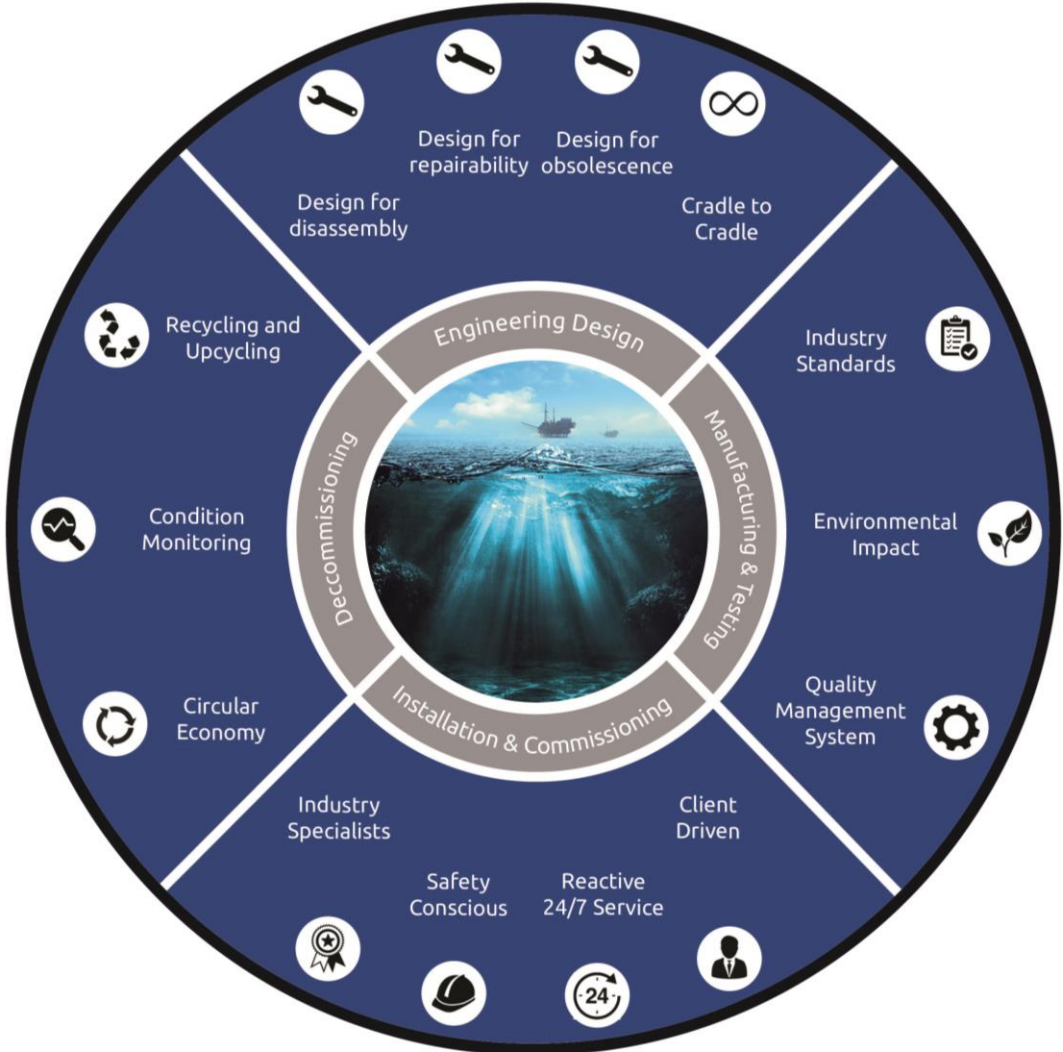




Problem Solved



Design for Reuse – The Circular Economy



Setting the Scene . . .

Reuse Group
with Decom
North Sea

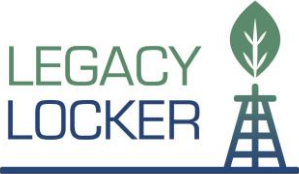
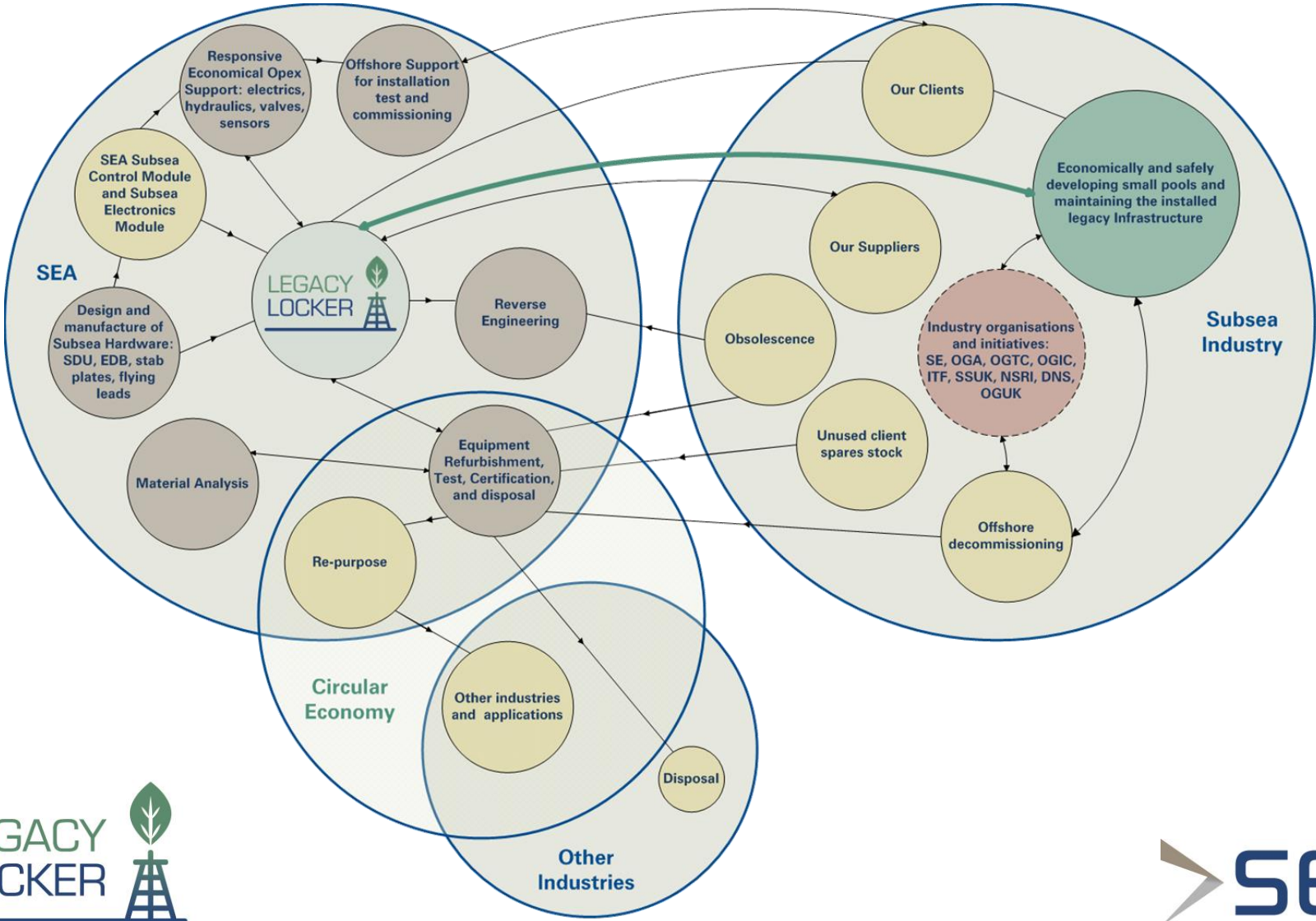
Not an
original idea

Reports &
Studies

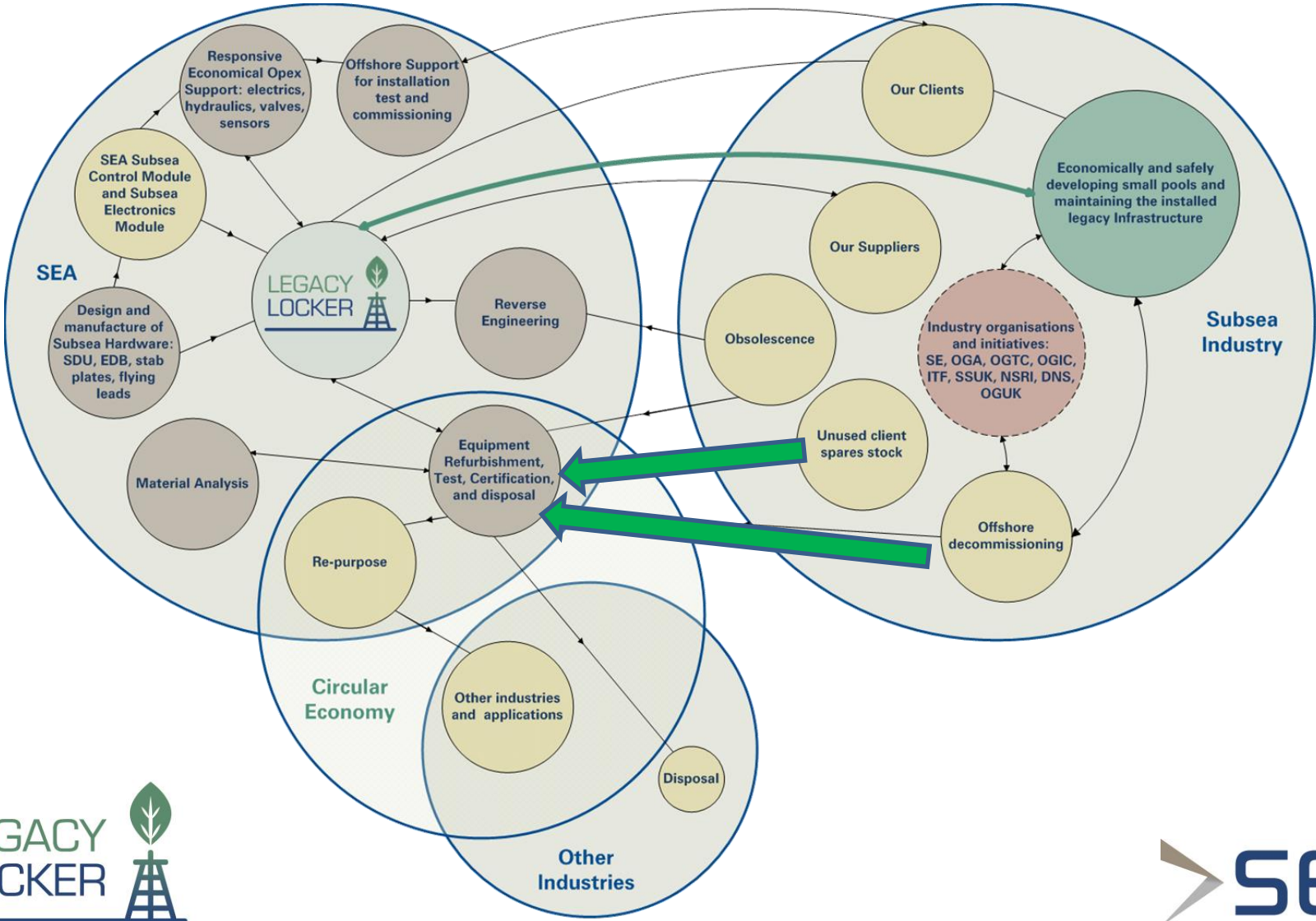
My view on
reuse thinking

Open to
discussion

Legacy Locker



Decommissioning Kit – what we envisage



Reuse

Legal
Definition



Reuse means any operation by which products or components that are not waste are used again for the same purpose for which they were conceived.

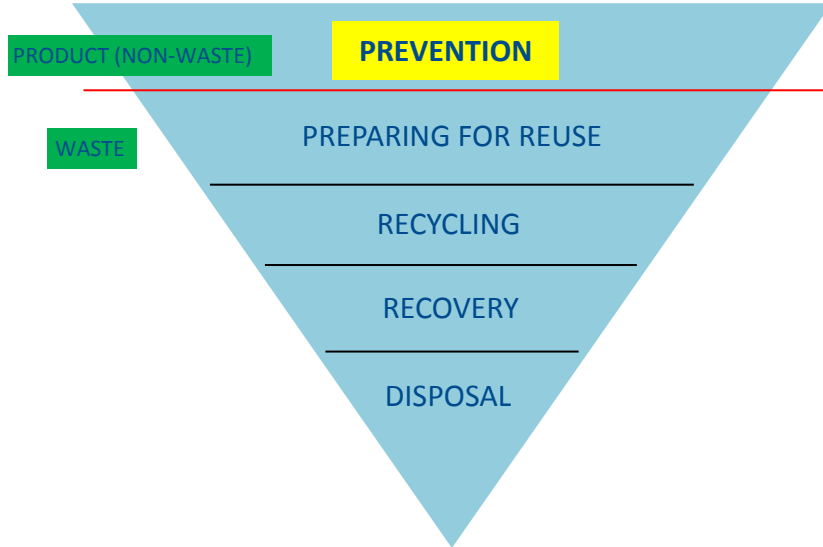


Reuse

European
Union
Law

Directive
2008/98/EC
on Waste

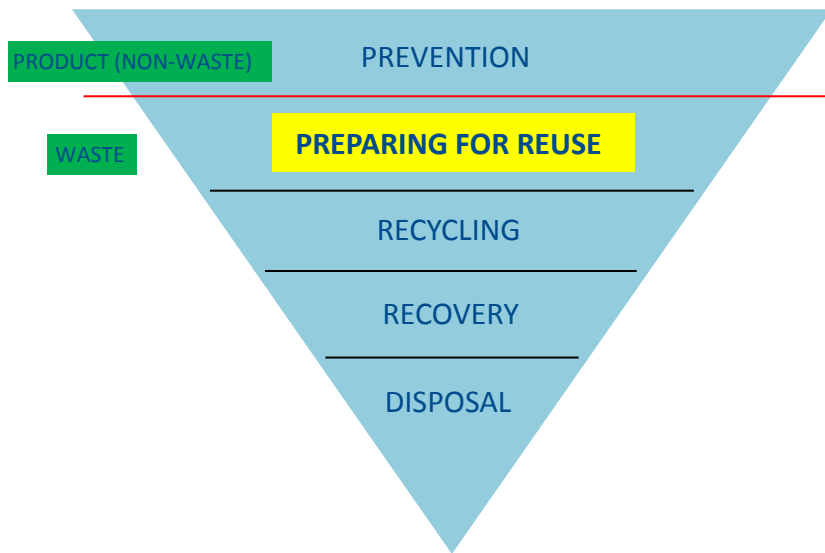
Prevention



Means measures taken before a substance, material or product has become waste.



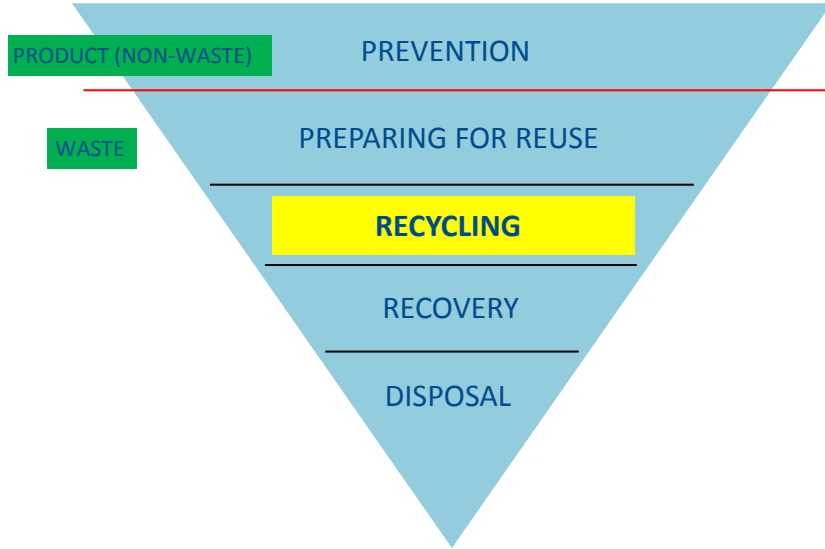
Preparing for Reuse



Means checking, cleaning or repairing recovery operations, by which products or components of products that have become waste are prepared so that they can be re-used without any other pre-processing.



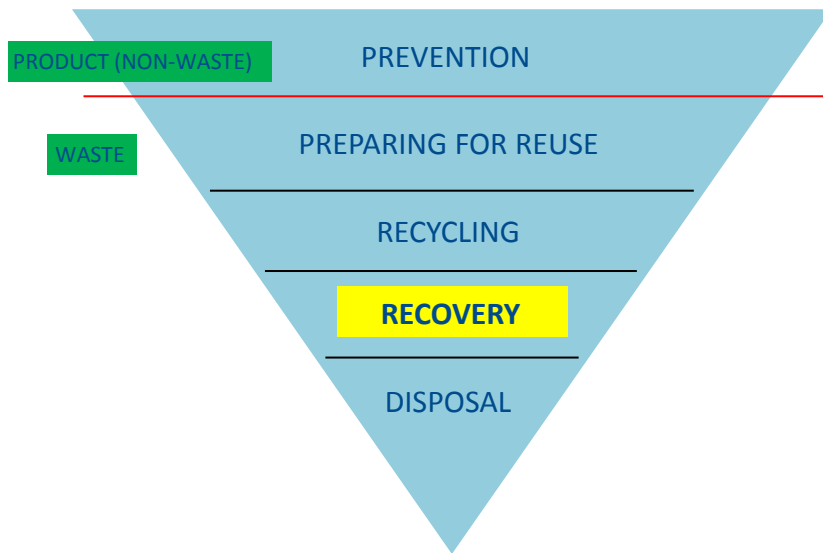
Recycling



Means any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes.



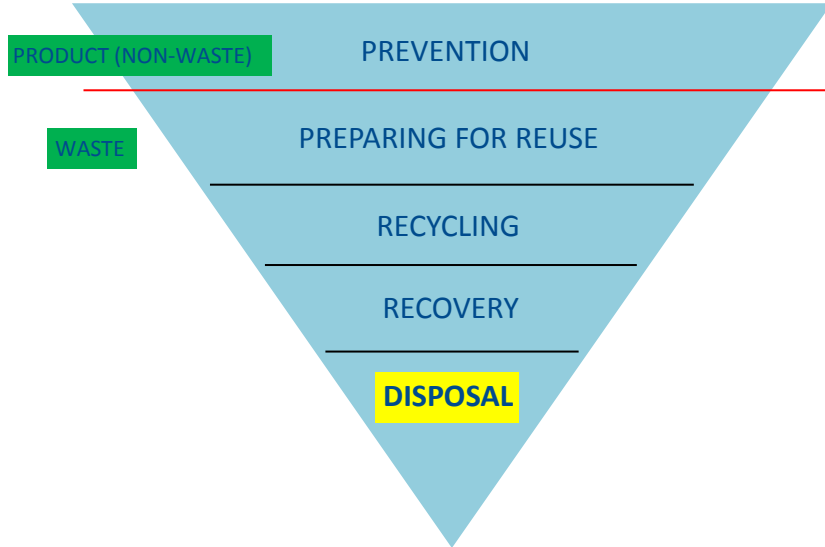
Recovery



Means any operation the principal result of which is waste serving a useful purpose by replacing other materials which would otherwise have been used to fulfil a particular function, or waste being prepared to fulfil that function, in the plant or in the wider economy.



Disposal



Means any operation which is not recovery even where the operation has as a secondary consequence the reclamation of substances or energy



Angles

Concentrate
on prevention
& reuse

Interested
parties have
approached
reuse from their
perspective

How do we
bring the
perspectives
together?

Liability / Environmental

Currently, Oil Companies can prove traceability to a registered disposal operation

Reputational
RISK

RISK
Averse

Is the RISK
real or
perceived?

Contractual
RISK

Duty of
Care

Financial

Currently, as income, Oil Companies only get scrap value for decommissioned assets

Direct and indirect costs and benefits?

Pricing to dissuade

Duty must be handled correctly or £

Items for reuse are worth what someone will pay

Offshore VAT exemption issues

Drivers

Enforce
Reuse

UK PLC &
Societal
Benefits

Encourage
via Decom
programme

Financial
Benefits

PR &
Corporate
Value

Lead Time
Reduction

Supply
Chain

Marginal Field
Development

Managing
Obsolescence

Let the
Market Prevail

The Equipment

Types of
Equipment

Components

Subsystems/
Assemblies

Unused Spares /
recovered from
offshore

Items with
Documentation

Traceability via
Manufacturer's serial
number or ID

Certification via
LLOYDS,
Bureau Veritas

Timing from
CoP to recovery

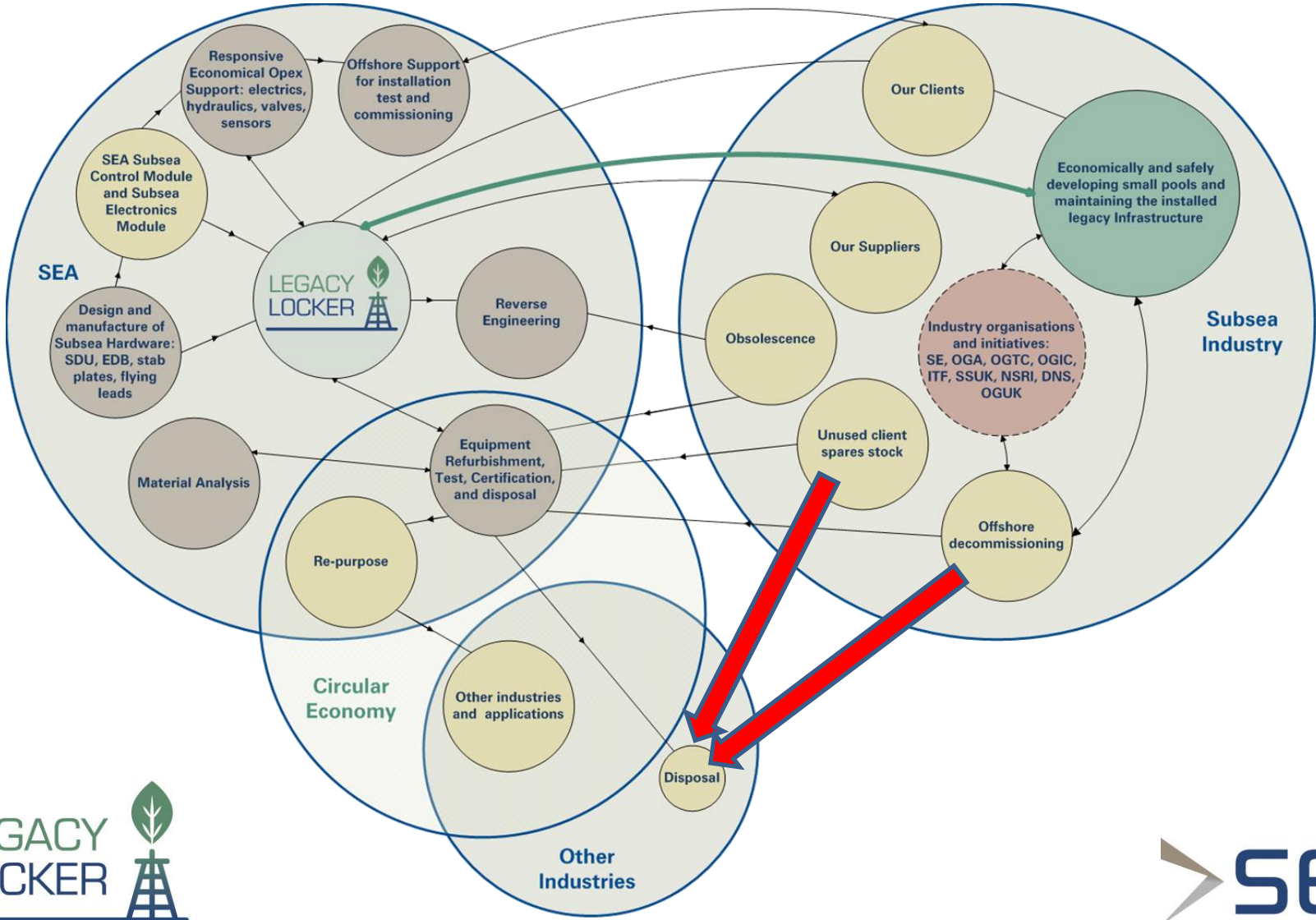
OGTC – Tie back to the Future



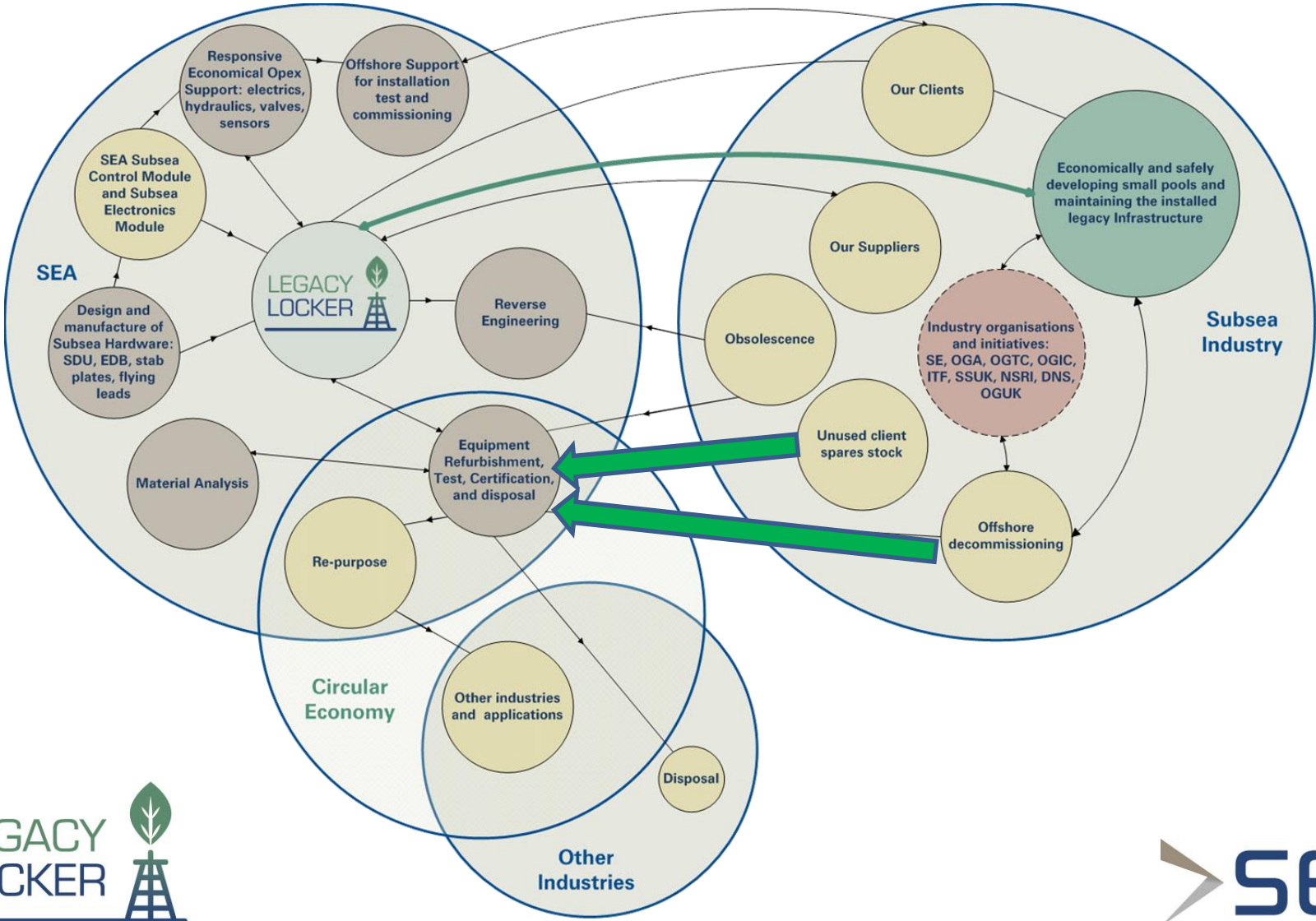
Creating a circular economy, whereby subsea equipment is designed for disassembly and reuse, is at the heart of the initiative



Decommissioning Kit – what's happening now



Decommissioning Kit – what we envisage



Where to we pitch our message?

Government
Strategy –
OGA, SEPA

Oil Companies
Supply Chain

Industry
Organisations

First Tiers
Lease Model

Niche SMEs who
undertake similar

The Way Forward

Why should it succeed now?

Recognition that Supply Chain isn't working

Obsolescence is a growing issue

Change in Industry cost drivers

Recognise the issues

Grab it while we can!

The Way Forward

Everyone
wants to take
part

Establish
rules of
engagement

DNS L2P2
framework

Continue reuse
where it's
happening already

Share the
pain

Use
Legacy Locker





Thank You

Matt Blair,
Subsea Engineering Director

Visit stand 54 for more information