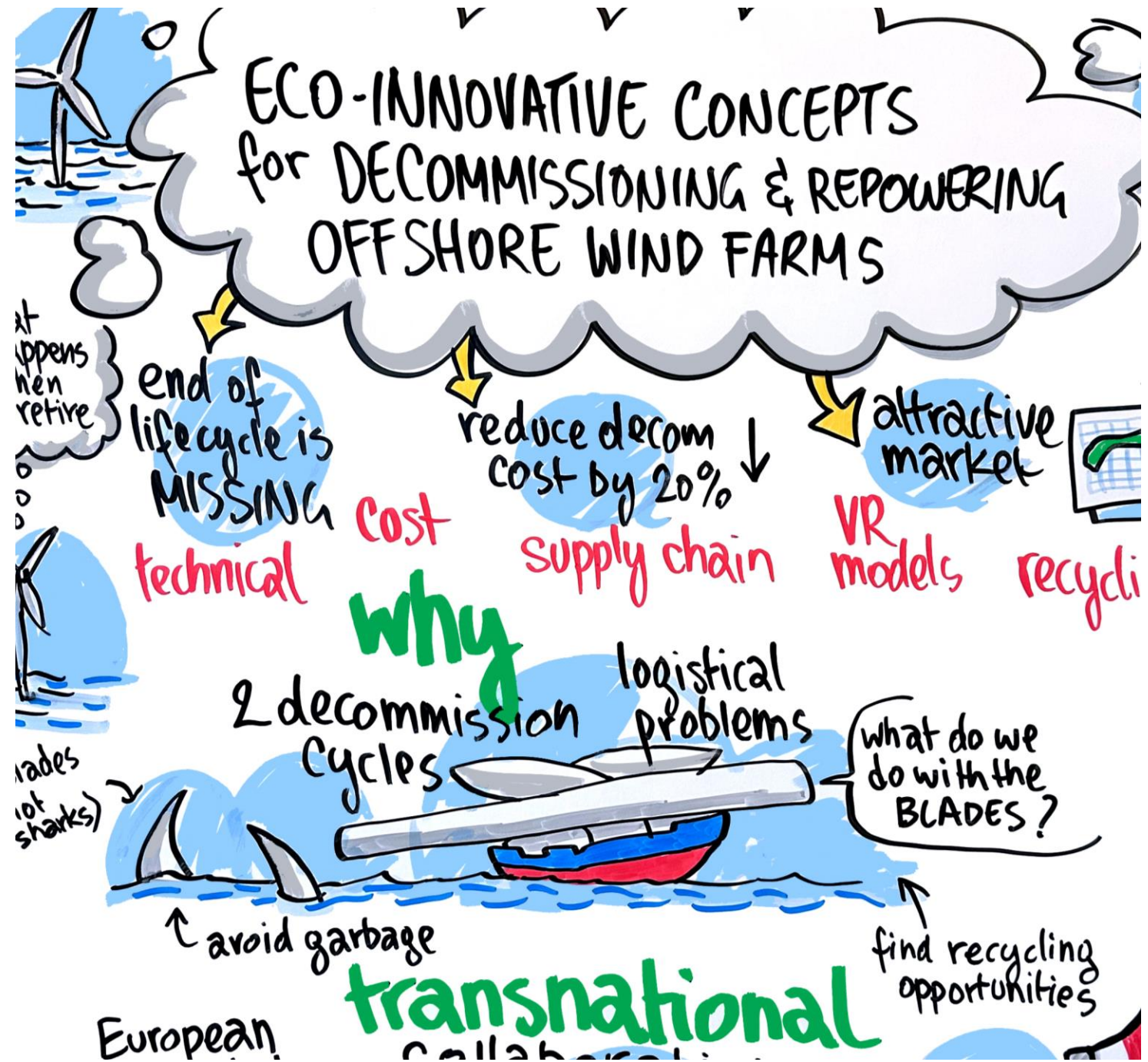


Visual Summary JIXSO Decomtools Final Conference

Ostend
19 January 2023





decomtools

final conference

WELCOME!

ECO-INNOVATIVE CONCEPTS
for DECOMMISSIONING & REPOWERING
OFFSHORE WIND FARMS

what happens when I retire

end of lifecycle is MISSING

reduce decom cost by 20%

attractive market

technical

cost

supply chain

VR models

recycling

why

2 decommission cycles

logistical problems

what do we do with the BLADES?

blades (not sharks)

avoid garbage

find recycling opportunities

transnational

collaboration

Cultural diversity

communication

administration

European Scope but worldwide perspective



Kristof Brackeleire

jixso.com



European perspective

on decommissioning & off shore wind



more and more capacity reaching end of life

reality

why don't we decommission more?

options

repowering?



political pressure

still in good shape



the case

300 by 2030

full? refurbish? partial?

does it make sense?

future

environmental impact

DO IT TOGETHER

environmental perspective

do we build new?

do we keep some?

what's the impact?

plan

business perspective

REPOWERING

it moved from experiment to business

collaborate the North Sea is small but making us money

business

need financial incentive

it's a GIGANTIC INDUSTRY

make it better

the wind is always there

revenue starts subsidizing

BUILD NEW PARKS or REPOWER ???

end of lease

value supply chain

value for money

end of life



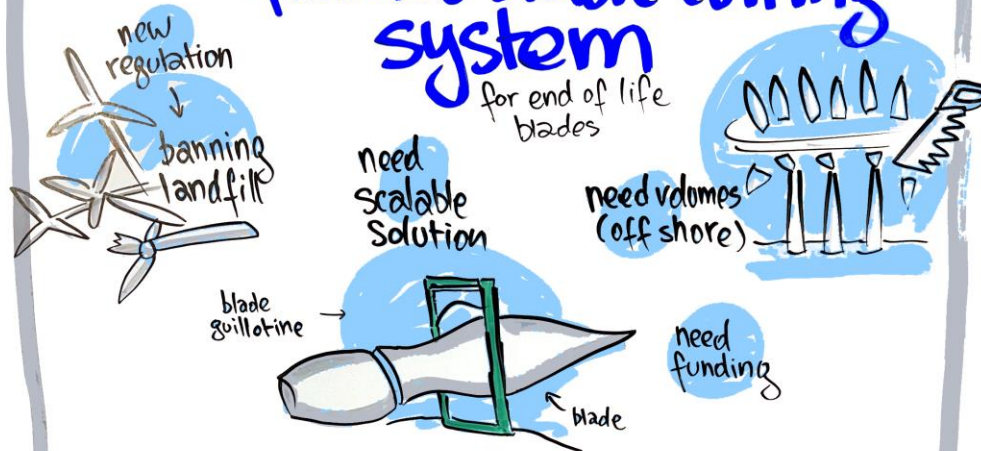
PANEL 1

preparing for offshore wind turbine end of life market

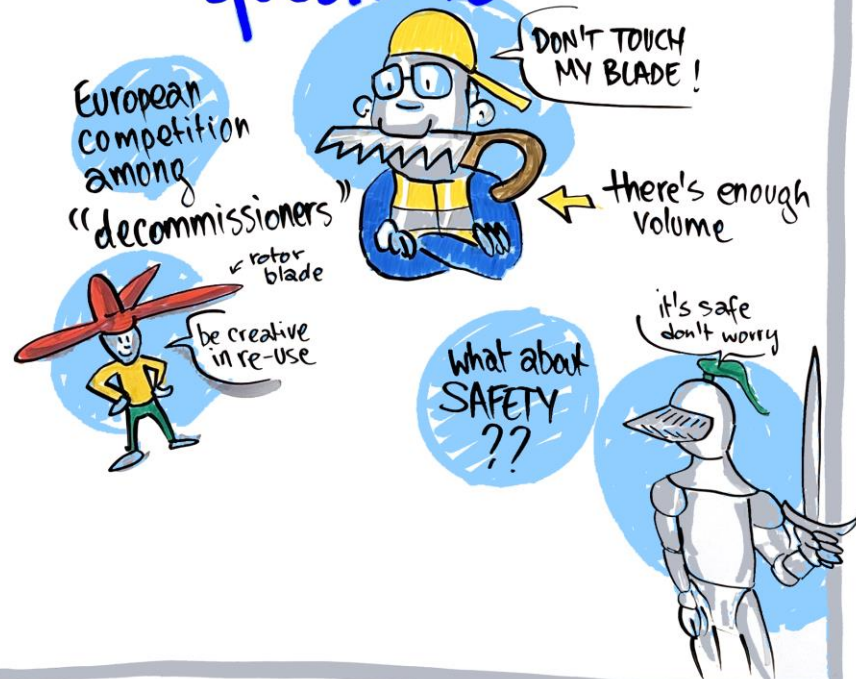


Advantis

flexible blade cutting system



questions



off shore decom.

challenges ahead for offshore windfarms



Safety

UXO
Squid
Projectile
W.W.II

Poor datasets

Surprises

subsea structures

VERY COSTLY BUT NORWEGIAN COMPANIES know how to HANDLE this BUT they need large VOLUMES

- plan
- remove
- dispose



University of Aberdeen

decision support system for decommissioning of offshore

FUNCTIONS

- define offshore wind farm
- define available resources
- define removal scenarios
- evaluate removal cost & emission

Deterministic Analysis

TOTAL REMOVAL TIME (days)	=====
No of TB/BV TRIPS	=====
COST (m€)	=====
EMISSION (tonCO ₂)	=====

Combining blade 3, 2 & 112 gives input on scenarios

Stochastic Analysis



Advantis

flexible blade cutting system for end of life blades



need Scalable Solution

need volumes (off shore)

need funding



questions

European competition among "decommissioners"

DON'T TOUCH MY BLADE!

there's enough volume

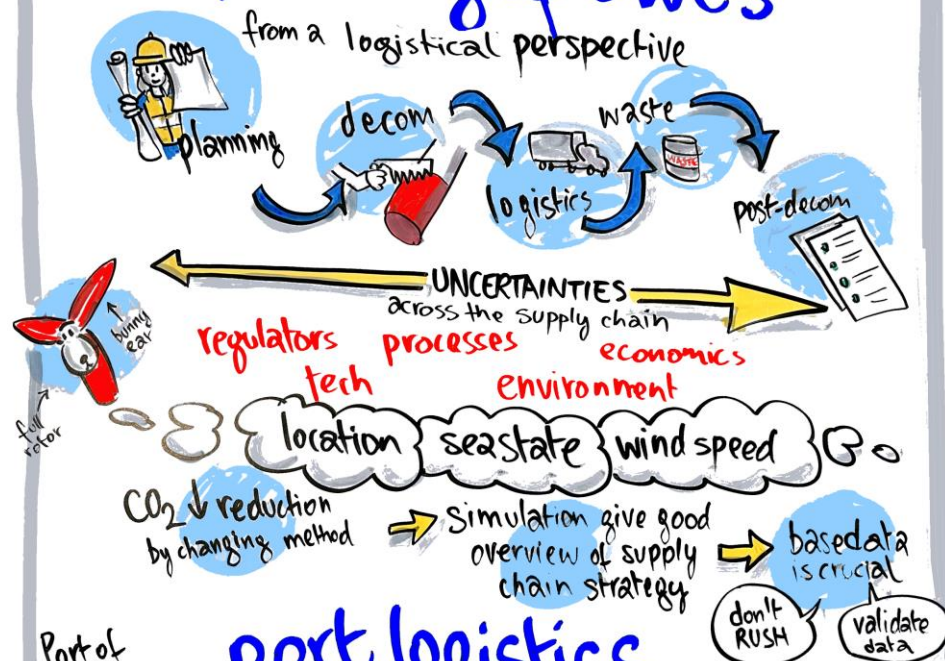


what about SAFETY??

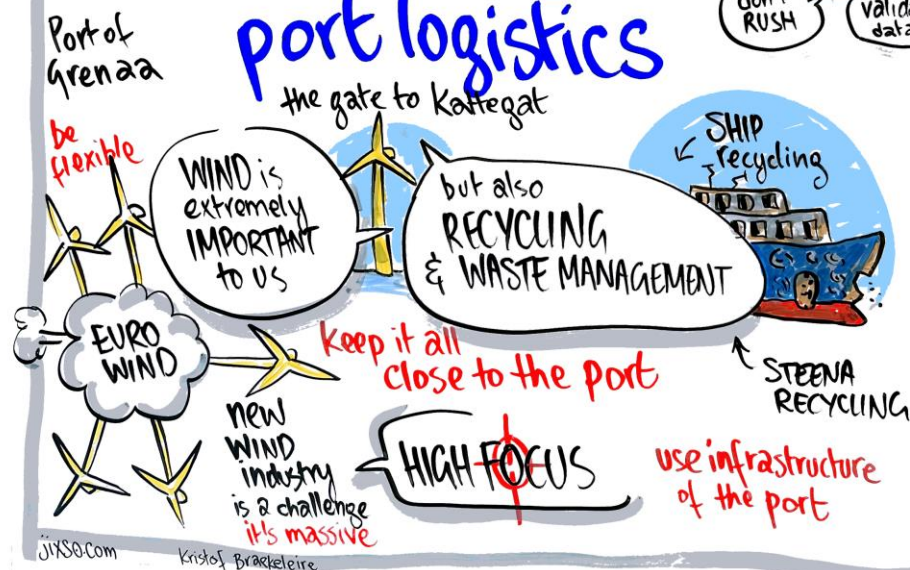
it's safe don't worry



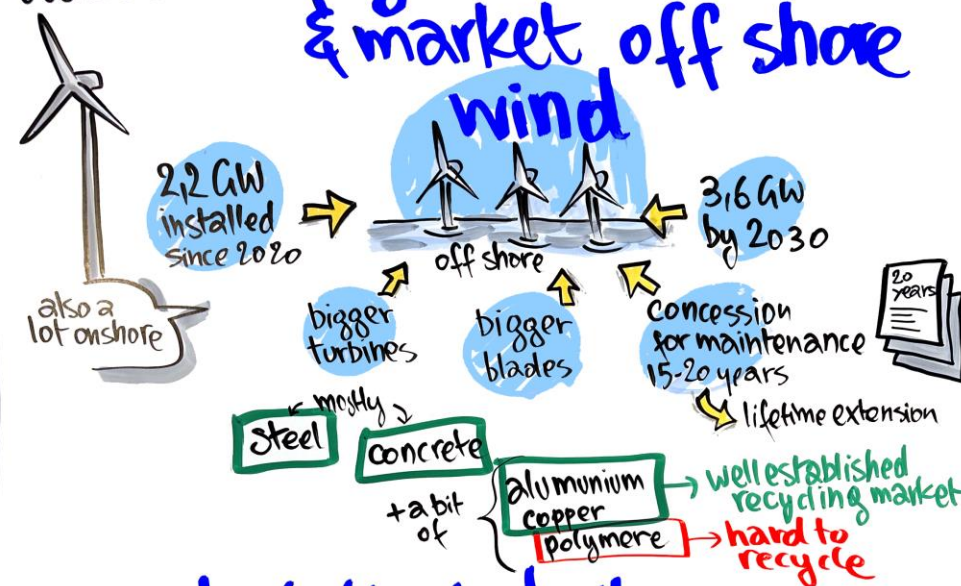
end of life planning of owts



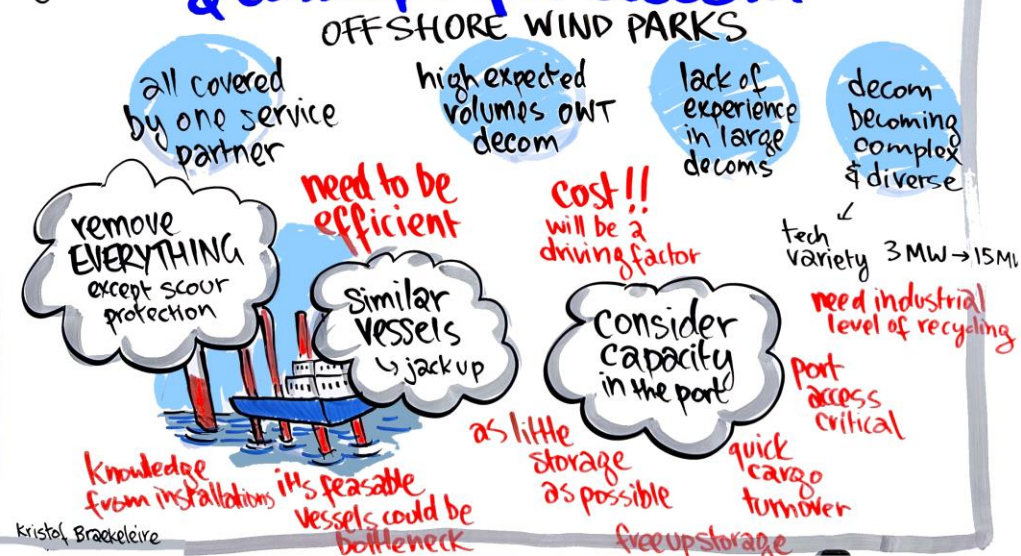
port logistics



belgian volumes & market off shore wind

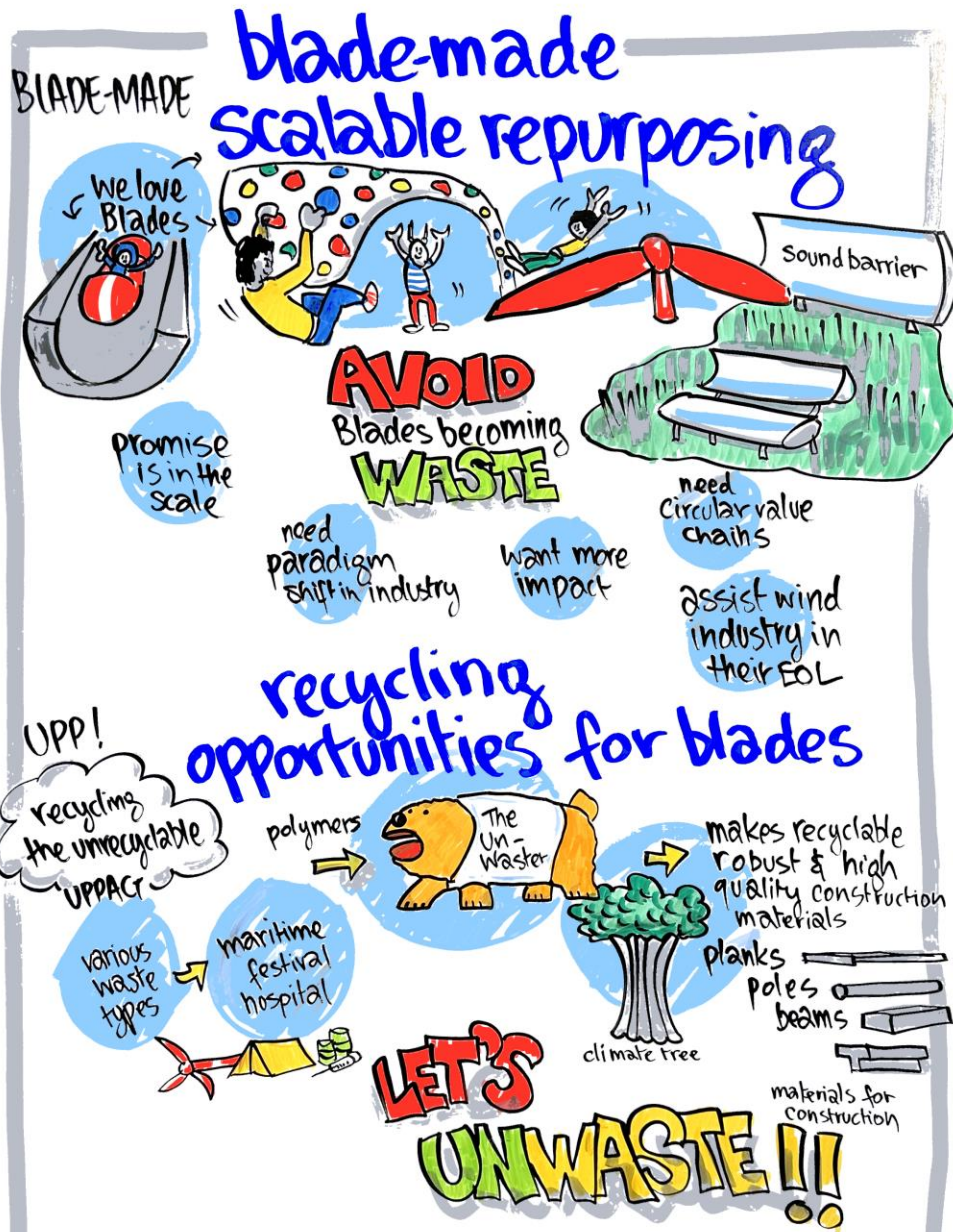
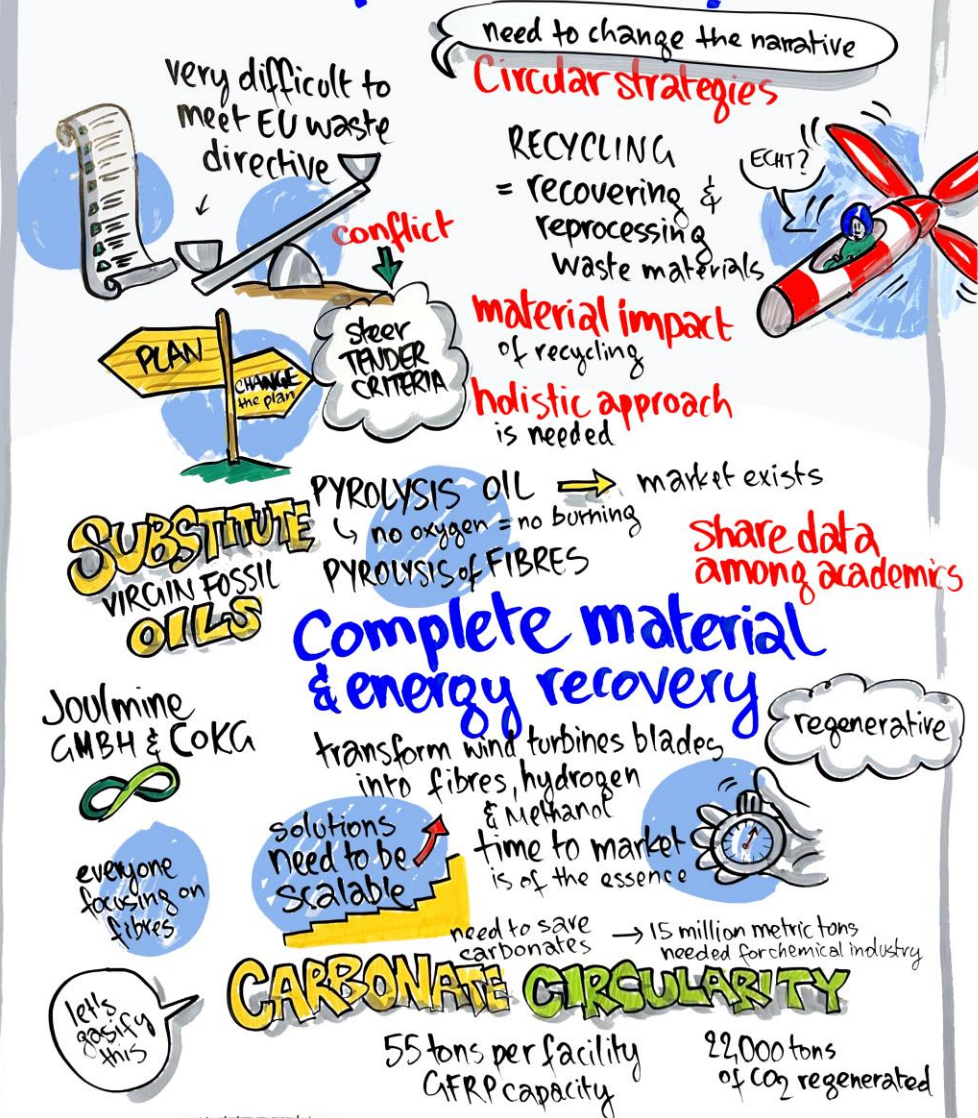


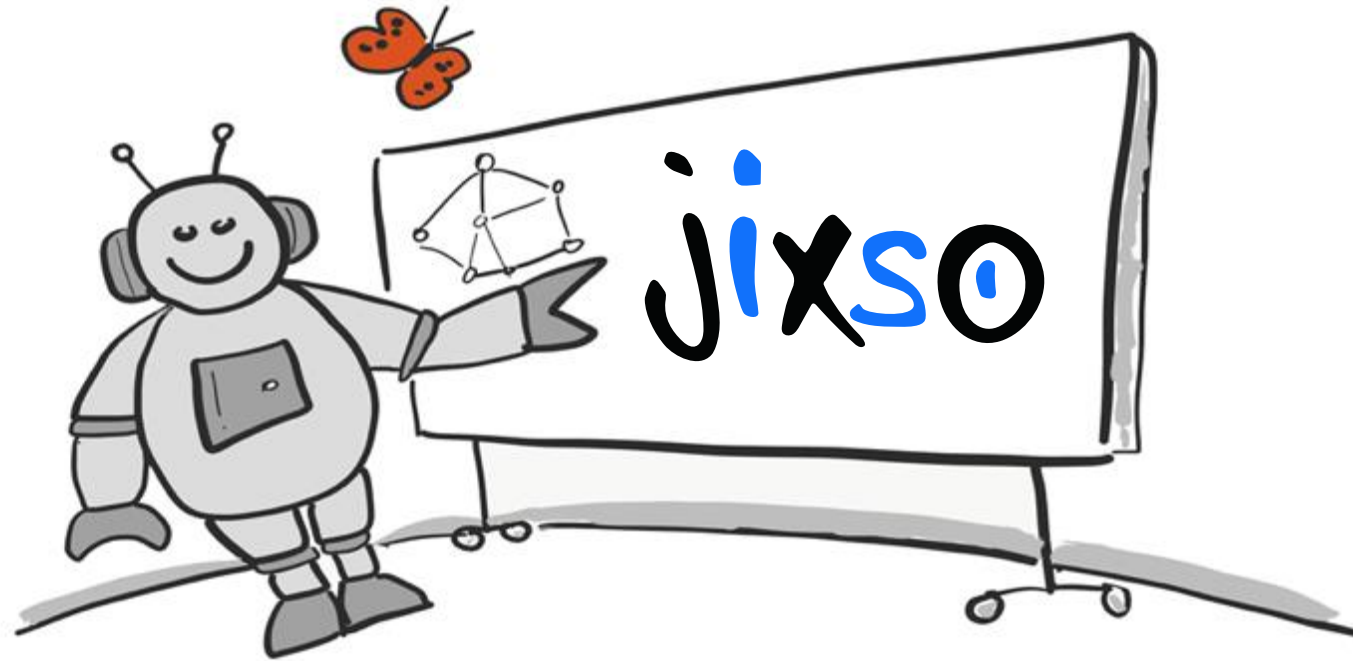
logistical challenges & concept for decom



ECHT
regie in
transitie

why is recycling problematic?





"WE DRAW YOUR STRATEGIES."

ALL VISUALS CREATED BY KRISTOF BRAEKELEIRE

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