FROM LINEAR ECONOMY TO CIRCULAR ECONOMY

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Leading the circular transformation

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- CELSA IS ALREADY LOW CARBON-CELSA IS CIRCULAR

OUR SUSTAINABILITY IN FIGURES:

Compared to producing the same amount of steel (7Mt) as a blast furnace, with its circular and low-emission steelmaking system, CELSA Group[™] annually avoids:



The extraction and consumption of 6.4 million m³ of natural resources

Equivalent to the volume of 6 buildings such as the Empire State Building



The consumption of 11.4 million m³ of water

Which is comparable to that of a city of 236,000 inhabitants in a year



The consumption of 9,500 GWh/year of electricity

The equivalent of the consumption of a city of 2.5 million inhabitants in a year



The emission of 13.6 million tons of CO² into the atmosphere

Comparable to those generated by 3 million cars running for a year (24/7).







CELSA IS CIRCULAR

-- C - E - L - S - A - - - I - S - - A - L - R - E - A - D - Y - - - L - O - W - - - C - A - R - B - O - N --

CELSA OBJECTIVES

- CIRCULAR INDUSTRY -

CELSA GROUP 100% CIRCULARITY IMPROVING VALORIZATION

2 - DECARBONIZATION -

70% REDUCTION OF SCOPE 1 AND 2 EMISSIONS vs 2015

_{by} 2025

To become

NET POSITIVE

by

2040

CELSA IS CIRCULAR

*-- *C* •E+ *L* S* •A+ * • *I+ *S* • * •A+ *L* R+ E* A* •D *Y* • * •L+ *O* •W* • * *C+ *A* •R+ *B * O+ *N* +=

THE TWO BIGGEST SYSTEMIC RISKS OF OUR PLANET



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THE RISK OF DEPLETION OF NATURAL RESOURCES,

X

derived, on the one hand, from the incessant growth of the population and, on the other, from the validity of the "linear economy" model.





THE RISK OF CLIMATE CHANGE

X

with all the consequences derived from it, which, in turn, feeds the risk of resource depletion.







-- C - E - L - S - A - - - I - S - - A - L - R - E - A - D - Y - - - L - O - W - - - C - A - R - B - O - N --

EUROPEAN CONTEXT

To meet its clean energy goals, Europe will require **35 times more lithium** and 7 to **26 times the amount** of rare earth metals in 2050 compared with today. It will also need **1.5mn tonnes of copper** (an increase of 35% from today) and 400,000 tonnes of nickel (a 100% increase).









If carried out

extensively, the circular economy could

potentially, reduce consumption

of new materials by

32% within 15 years,

and by 53% by 2050

The Transition towards a

circular economy is

estimated to represent a



global growth

opportunity by 2030,

while helping to restore

our natural systems

Source Accenture

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-- C - E - L - S - A - - - I - S - - A - L - R - E - A - D - Y - - - L - O - W - - - C - A - R - B - O - N --

Studies show that the circular economy presents a \$4.5 trillion USD opportunity, may boost GDP by 1.1%, create more jobs and make the economy more resilient

ACCELERATE GROWTH

FI SA

GENER8 Create additional revenue from

existing products and services

NNOV8

Spur innovation of new products and services

MODER8

Reduce operating costs

CAPTIV8

Enhance customer and employee relationships

ENHANCE

COMPETITIVENESS

DIFFERENTI8

Distinguish from competition

INTEGR8

Align corporate strategy with mission

MITIGATE RISK

> ACCLIM8 **《**

Adapt business models and value chain relationships

> I N S U L 8 **<**

Mitigate linear risk exposure



















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SOME NAMES IN THE CIRCULAR ARENA











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BARRIERS & SOLUTIONS

Lack of a COMMON VISION:

Between the public administration & the private sector We talk mainly about recycling From competition to collaboration

REGULATION & POLICY MAKING:

Fragmented regulation Residue definition Lack of legal obligations Lack of incentives (positives or negatives)

CULTURE & TALENT:

Lack of Knowledge Lack of eco-design training Culture of collaboration

Lack of MARKET INCENTIVES:

B2C begins to feel the market pressure B2B still does not feel the urgency Negative perception of recycled products

SUPPLY & DEMAND

Manufacturing & Logistics barriers Dimension Technology Lack of brokerage

CHANGE OF MINDSET



COLLABORATIVE SPACES: work together

EXPERIEMENT & SHOWCASE: hubs

LEARN, SHARE & DEBATE

SUPPLY & DEMAND MATCHING:

Brokerage

Market place (very difficult)

LOBBY & INFLUENCE

- C E L S A I S A L R E A D Y L O W C A R B O N -CELSA IS CIRCULAR

CHANGE OF MINDSET

NORMALY WE ARE:

- People: Dominants, individualist
- Companies: independents
- We have risk aversion
- We compete

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- We do not collaborate
- We want to win 5 0



Nobody knows how to do it. Thus, this game is of trial & error.

WE SHOULD BE: People: collaborative: Do not confuse collaboration with delegation Slow down. Long meetings. A lot of people and diverse people invited. Listen more than talk. Companies: interconnected. It will be easier if we do not start from scratch. Work with others that have already started.

- -- Main partners:
- -- current suppliers
- -- current customers
- -- and our employees
- -- Other potential partners:
- -- investors
- -- government, etc.

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CELSA GROUP In times of turmoil, the danger lies not in the turmoil, but in facing it with yesterday's logic.

- Peter Drucker -

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