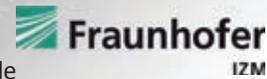


OPTIMISING THE RESOURCE FLOWS

Project coordinator

Dr. Otmar Deubzer
Otmar.Deubzer@izm.fraunhofer.de
Tel. +49 30 46403 157



Project partners





involved SMEs



Cycling resources
embedded in systems
containing Light Emitting Diodes

www.cyc-LED.eu

Supported by:



Please find more Information on partners and contact possibilities on: www.cyc-led.eu

The sole responsibility for the content of this flyer lies with the authors. It does not necessarily reflect the opinion of the European Union. The European Commission is not responsible for any use that may be made of the information contained therein.



A CIRCULAR ECONOMY FOR CRITICAL METALS IN KEY TECHNOLOGIES

A few scarce metals are critical for a more sustainable development of Europe:

Indium, gallium, yttrium, cerium, terbium, europium, lutetium, palladium, gold, silver, ...

They may become the bottleneck of the European economies, as they are indispensable in modern key technologies. Batteries, computers, photovoltaics, catalysts, mobile phones depend on the availability of these metals.

Increasing amounts are used in LEDs enabling highly energy efficient lighting in luminaires, as backlights in notebook and mobile phone displays, or in TVs.

To secure the supplies, cycLED targets the efficient use and the recycling of critical metals in LEDs.

Our scope

- Save scarce metals in the manufacturing of LEDs
- Increase the lifetime of products containing LEDs
- Enable recycling of scarce metals from end of life LEDs

More detailed information at the project website

www.cyc-led.eu

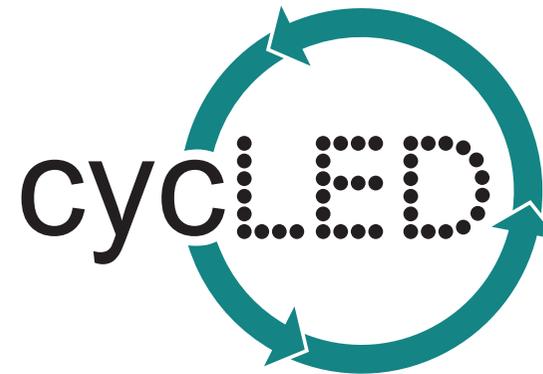


Scarce metal recycling



Scarce metal concentration in pre-treatment

Reduction of critical material use by



Design for repair, reuse and recycling



Longer use