

The circular economy in mountain forests.

What might it look like and what makes it unique?

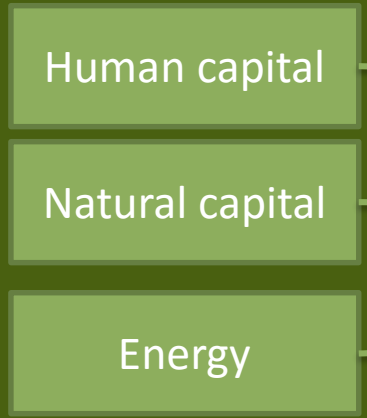
Ben Allen (IEEP),
29 November 2016, Skrad, Croatia

Circular economy principles

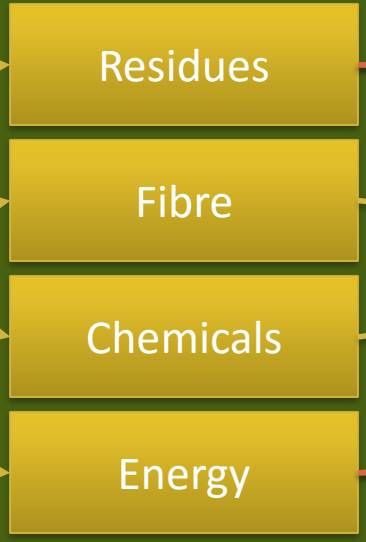
- Systems that keep the **added value** in **products** for as long as possible and eliminate waste;
- To ensure resources stay within the economy and can be **used productively again and again**;
- **Reduces demands** on (natural) resources, improves efficiency, and reduces costs

Forests in the linear economy

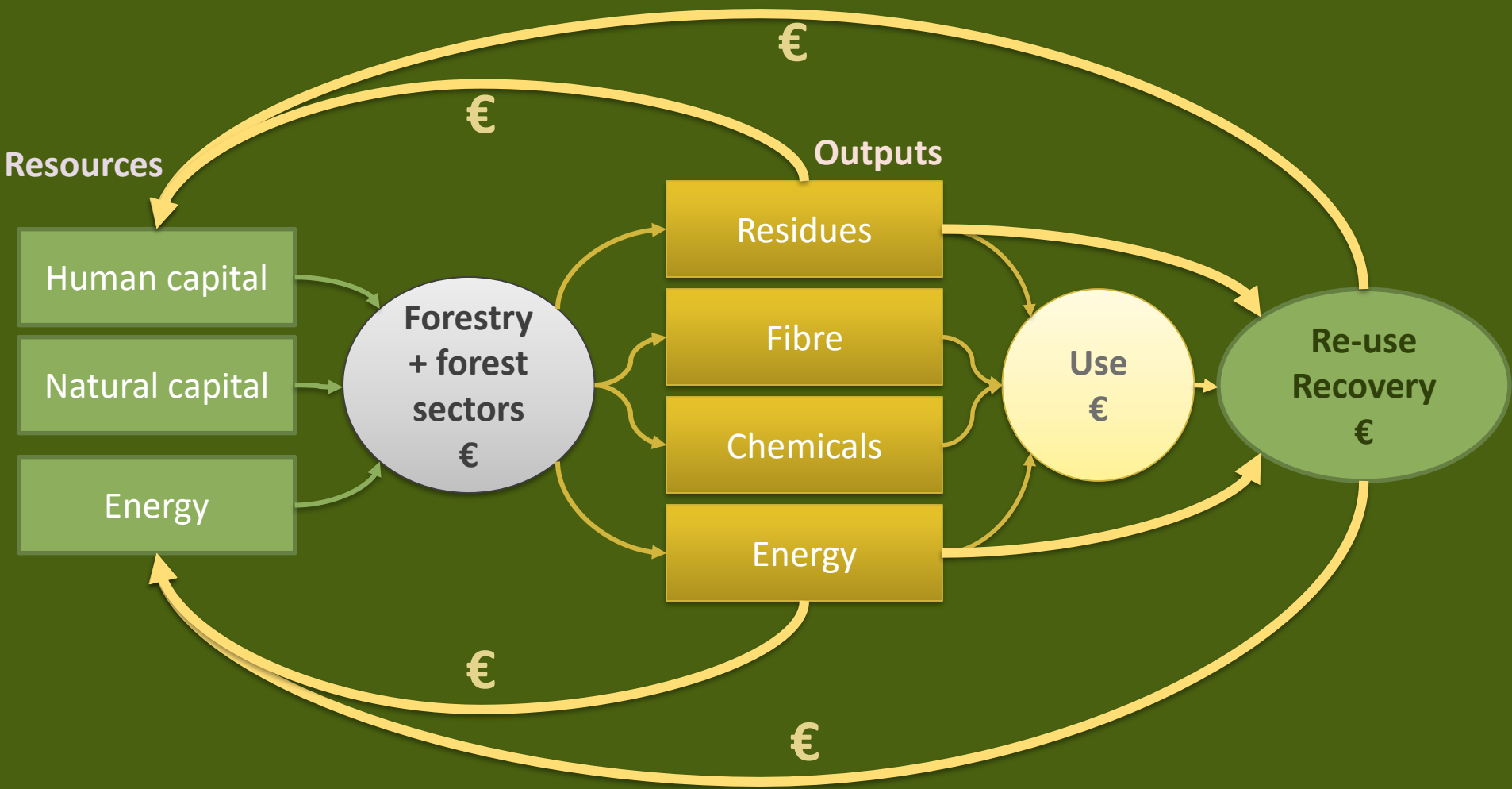
Resources



Outputs



Forests in the circular economy



Circular economy in the primary sectors

Resource efficient

- Preserve and enhance natural capital / resources
- Optimise natural yields
- Maximising value
- Designing out waste
- New income streams





Forest sector

- Forest management
- Timber production



Wood processing

- Paper, pulp, board
- Material use

Energy

- Bioenergy
- Waste processing



Natural capital

- Ecosystems
- Biodiversity
- Natural resources



Sustainable Opportunities

- Rural economies
- Cultural heritage



Tourism

- Recreation
- Local products





Forest sector

- Forest management



Wood processing

- Paper, pulp, board

Natural capital

- Ecosystems
- Biodiversity
- Natural resources

- Fragile
- Limited
- Vulnerable

Sustainable Opportunities



- Rural economies
- Cultural heritage



- Recreation
- Local products

Circular economy & Bioeconomy

Forest sector

- Forest management
- Timber production

Wood processing

- Paper, pulp, board
- Material use

Energy

- Bioenergy
- Waste processing

Natural capital

- Ecosystems
- Biodiversity
- Natural resources

Sustainable Opportunities

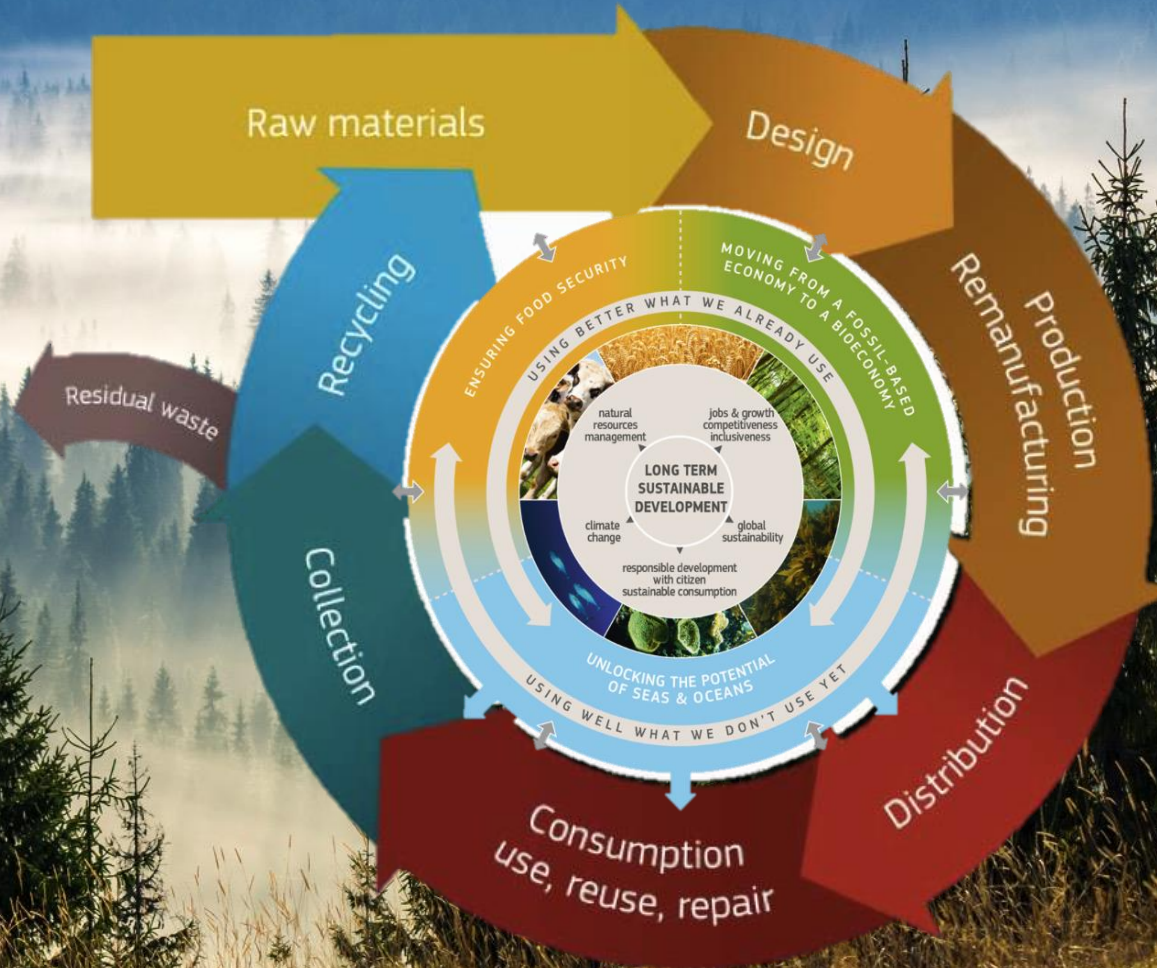
Bioeconomy

- Rural economies
- Cultural heritage

Tourism

- Recreation
- Local products

A circular bioeconomy in mountain forests





New products

- High value products
- Longer life spans
- Sustainable



New Markets

- Sustainability demand
- New resources



Natural capital

- Valorised
- Resilient & productive ecosystems



Human capital

- New Jobs
- Traditional skills
- Cooperation



Ecosystem services

- Flood protection
- Water filtration
- Climate mitigation



Communities

- Vibrant
- Valued
- Connected

Challenges

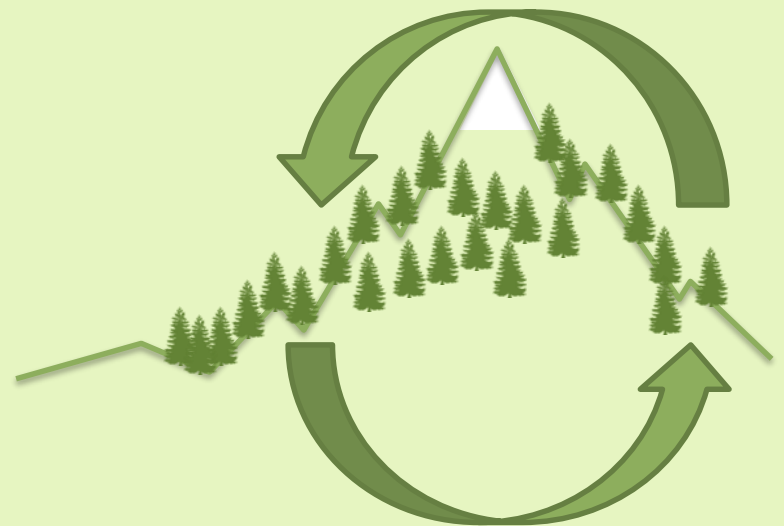
- Recovery can be hard
- How can forests benefit?
- Raising awareness
- Generating demand
- Tools and support





A mountain forest – circular bioeconomy

- Sustainability drives economic growth
- Ecosystems are resilient & productive
- Innovation & traditional skills
- Vibrant communities





Thank you

Dr Ben Allen

ballen@ieep.eu / +44 (0)20 7340 2682

Institute for European Environmental Policy (IEEP) 11 Belgrave Road, IEEP Offices,
Floor 3, London SW1V 1RB,
United Kingdom

www.ieep.eu



@IEEP_eu