

Rethinking Energy Solutions

Lead Authors:

Behnam Zakeri, Katsia Paulavets, Leonardo Barreto-Gomez, and Luis Gomez Echeverri

Contributing authors:

Shonali Pachauri, Joeri Rogelj, Felix Creutzig, Diana Urge-Vorsatz, David Victor, Benigna Boza-Kiss, Caroline Zimm, Sarah Alexander, Morgan Bazilian, Steffen Fritz, Dolf Gielen, Harish Hande, David McCollum, Clay Nesler, Michaela Rossini, Varun Sivaram, and Leena Srivastava

IIASA-ISC Consultative Science Platform

Bouncing Forward Sustainably: Pathways to a post-COVID world



BAN KI-MOON CENTRE
for Global Citizens

futurearth
Research. Innovation. Sustainability.



International
Science Council

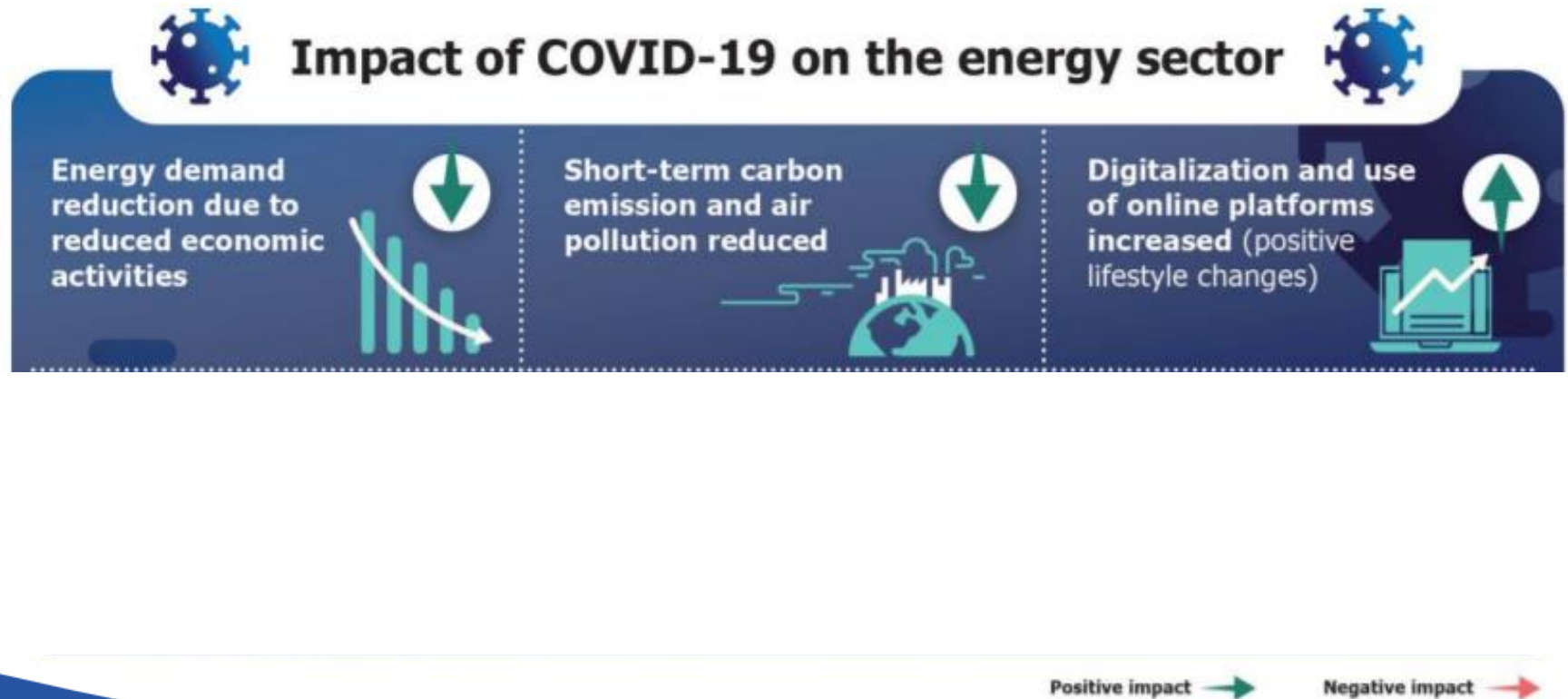
Structure of the report

- Impact of Covid-19 on the energy sector
- Rationale for transition towards a sustainable, resilient energy system
- Main areas affecting energy transitions: societal, behavioral, political, technological, etc.
- Discussing three areas for policy intervention



Impact of Covid-19 on the energy sector

- Positive (opportunities)
- Negative (revealing vulnerabilities and injustice)



Rationale for change

- Carbon emissions must be reduced after 2020 to meet the Paris Agreement
- Meeting ambitions of the Sustainable Development Goals agenda (SDG7: Energy)
- Energy and environmental justice

Role of science and innovation

- Understanding the long-term impacts on energy systems and the economy
- Identifying policy options to incentivize positive behavioral and lifestyle changes and collective responses to global crises
- Digital solutions and innovative technologies

Main areas of recommendation in Energy

I. Re-imagining consumption

- through advancement of circular, sharing economy and citizens engagement

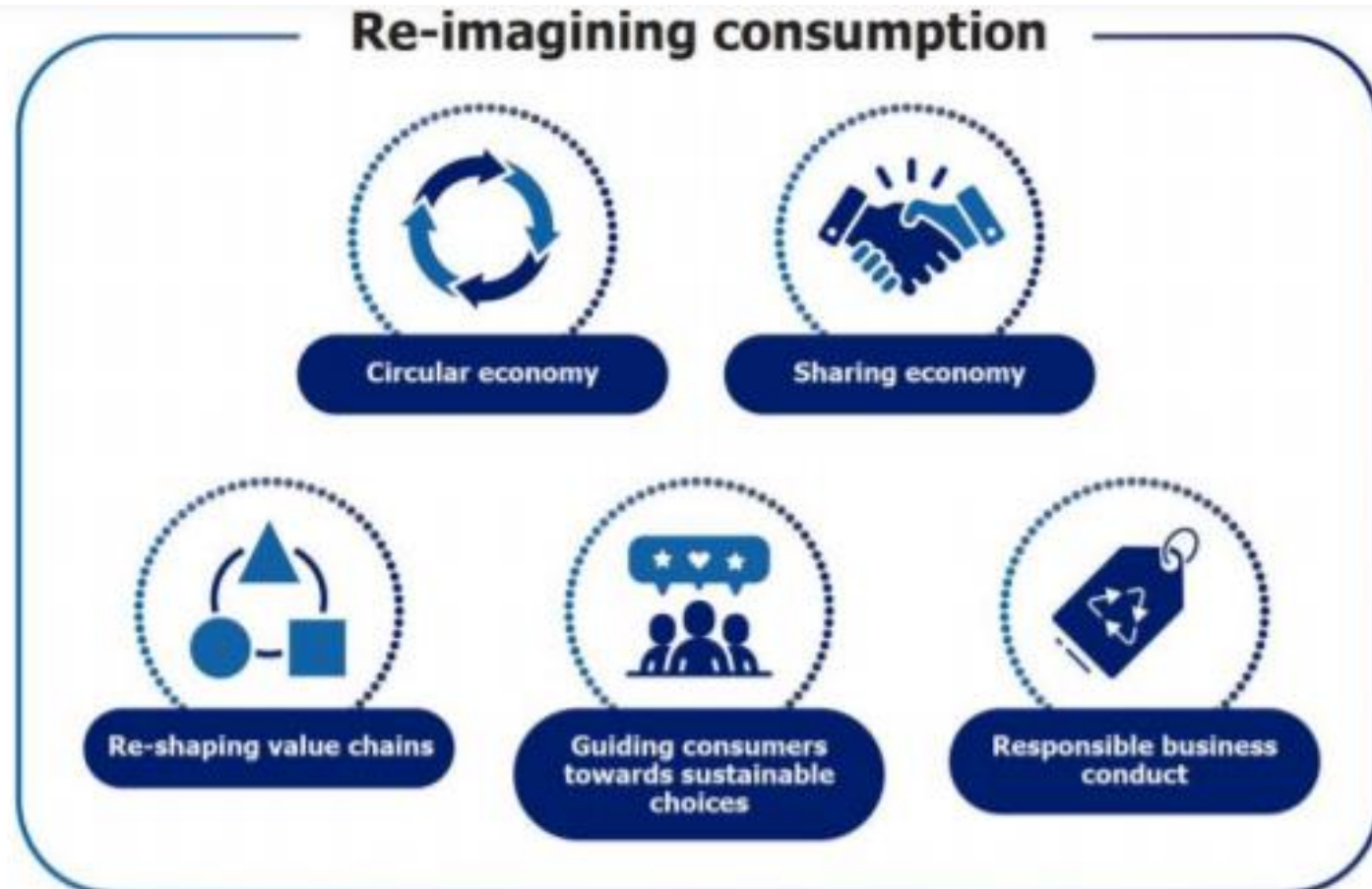
II. Re-inventing urban space, infrastructure, and mobility

- a) promotion of urban compact development with reduced car dependency and with access to key services, including public, shared and active mobility
- b) transformation towards low-carbon, flexible and resilient built environment

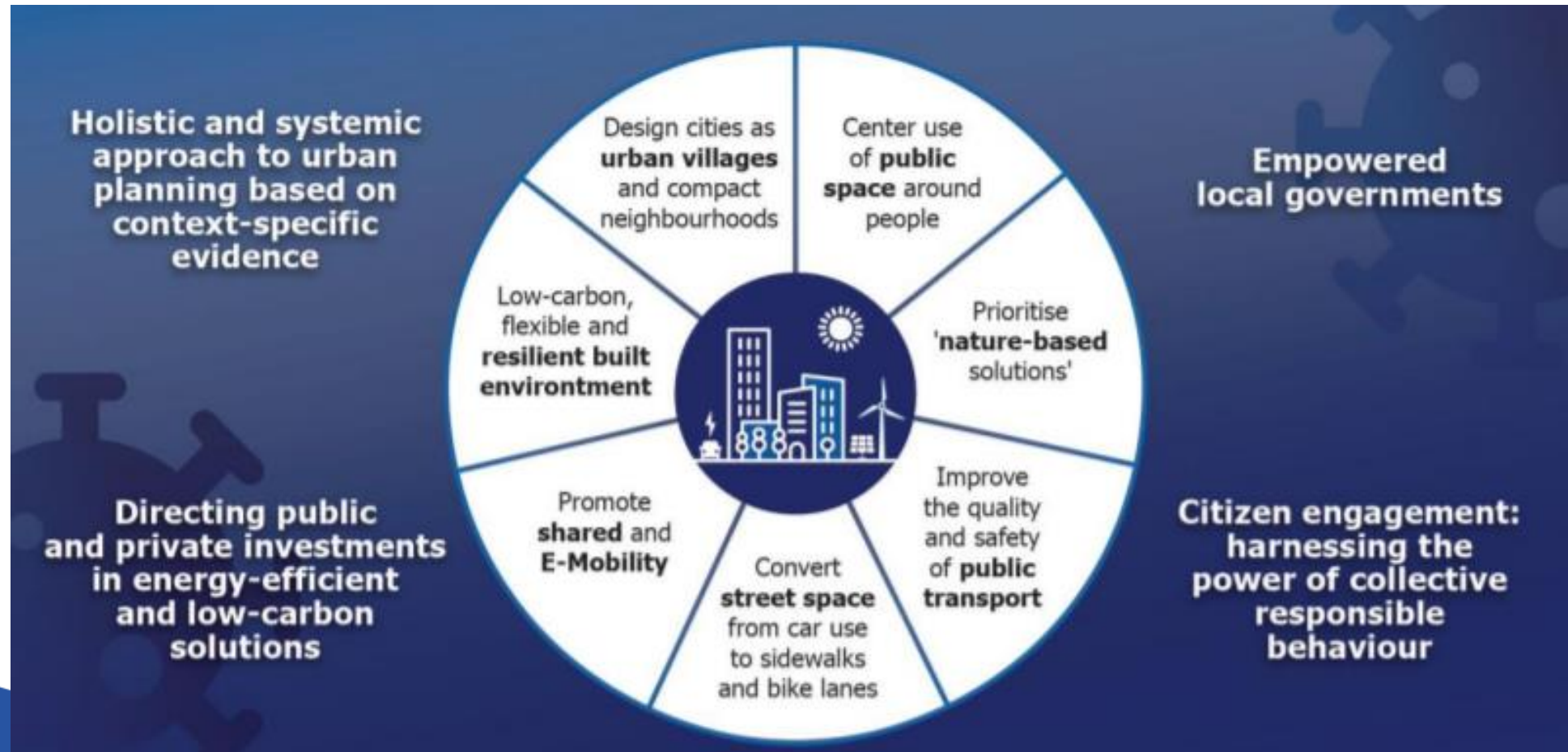
III. Advancing decentralized, efficient and resilient energy solutions



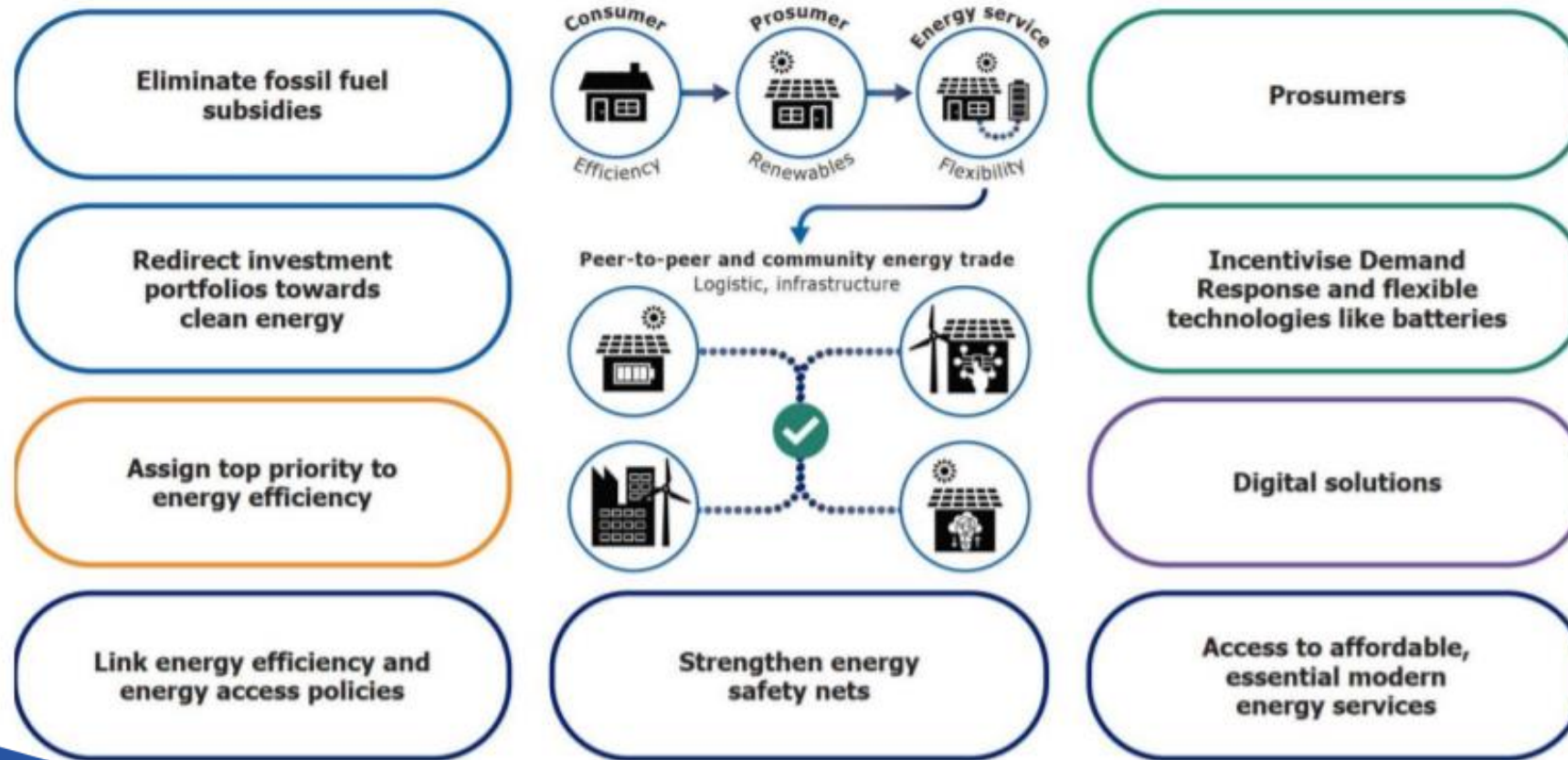
Re-imagining energy consumption



Re-inventing urban space, infrastructure, and mobility



Decentralized and efficient energy solutions



Thank you very much!

