

THE ROLE OF ICT IN CREATING A LOW-CARBON ECONOMY:

A 5 STEP PLAN FOR LOW CARBON URBAN DEVELOPMENT

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OUR GROWING CITIES

- › Last year marked a shift in human history with more than half of the world's population living in urban, not rural, areas for the first time.
- › In 40 years' time 70% of the global population will live in cities. This trend will result in massive investments and shape global resource usage.



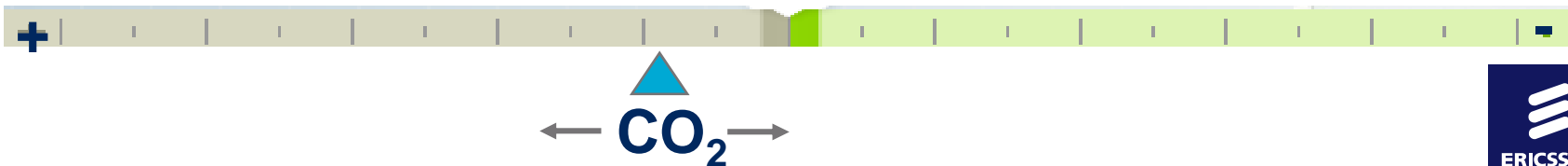
- › Cities and urban areas consume 75 per cent of the world's energy and produce up to 75 per cent of its greenhouse gas emission

OUR GROWING CITIES

- › Over the next 30 years over 300 trillion US\$ will be invested globally in urban areas to provide us with basic services such as transportation, heating, cooling and lighting.

Part of this money will be invested in more roads, power plants, inefficient houses, fossil fuel cars and traditional power distribution – expanding a traditional **20th century high carbon infrastructure.**

Another part will be invested in wireless, broadband, laptops, smart buildings, Smart grids, servers, vehicles and equipment that can communicate strengthening the emerging **21st century low carbon infrastructure.**

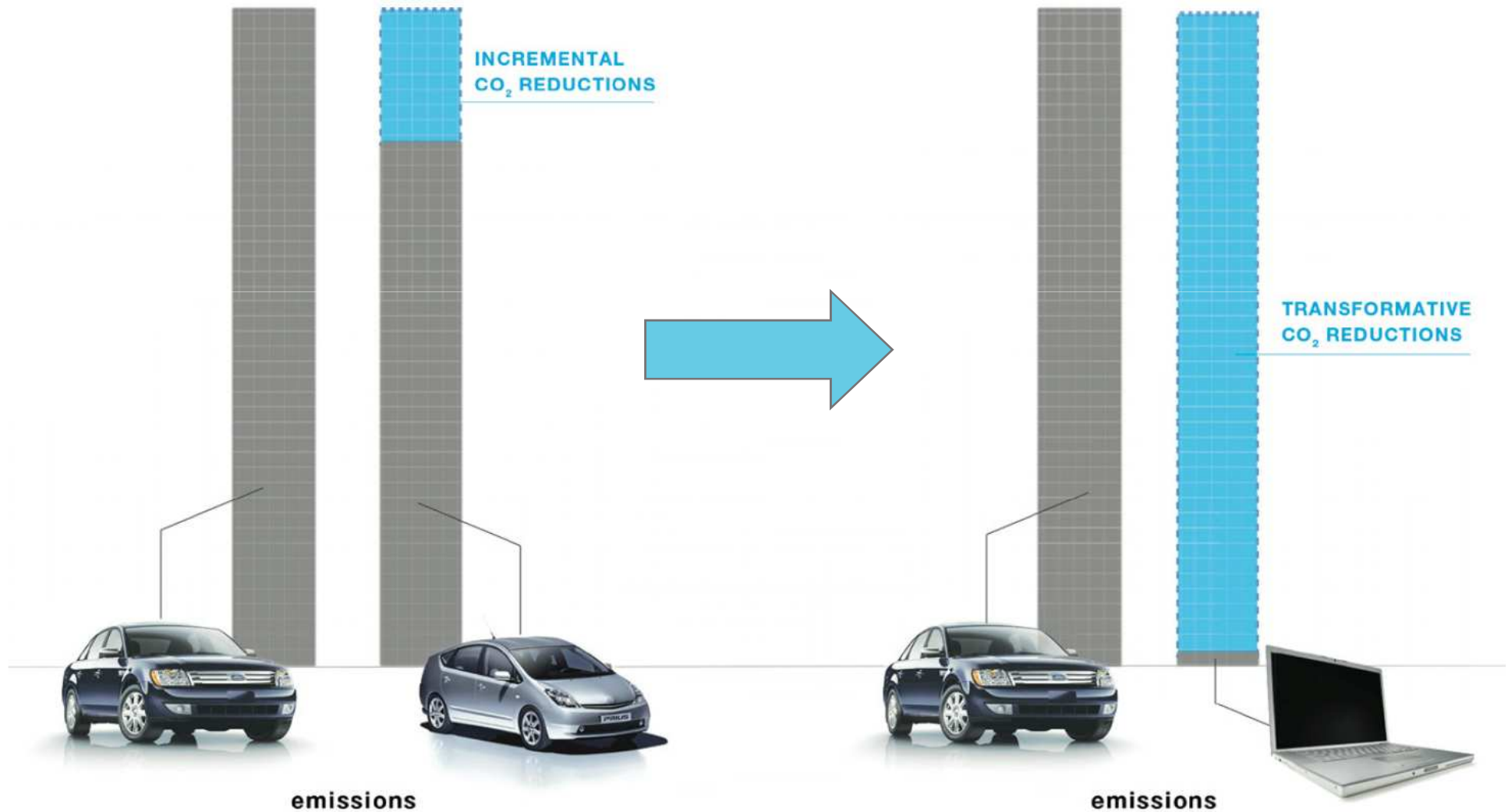


20TH CENTURY INFRASTRUCTURE

- › Airports, roads, tunnels, bridges, street lamps, parking lots, fueling stations etc, represent a 20th century infrastructure.
- › They are principally used to deliver high carbon services.
- › Investments in this infrastructure can deliver more of the same, or at best marginally improved, high carbon infrastructure.



FROM INCREMENTAL TO TRANSFORMATIVE CHANGE



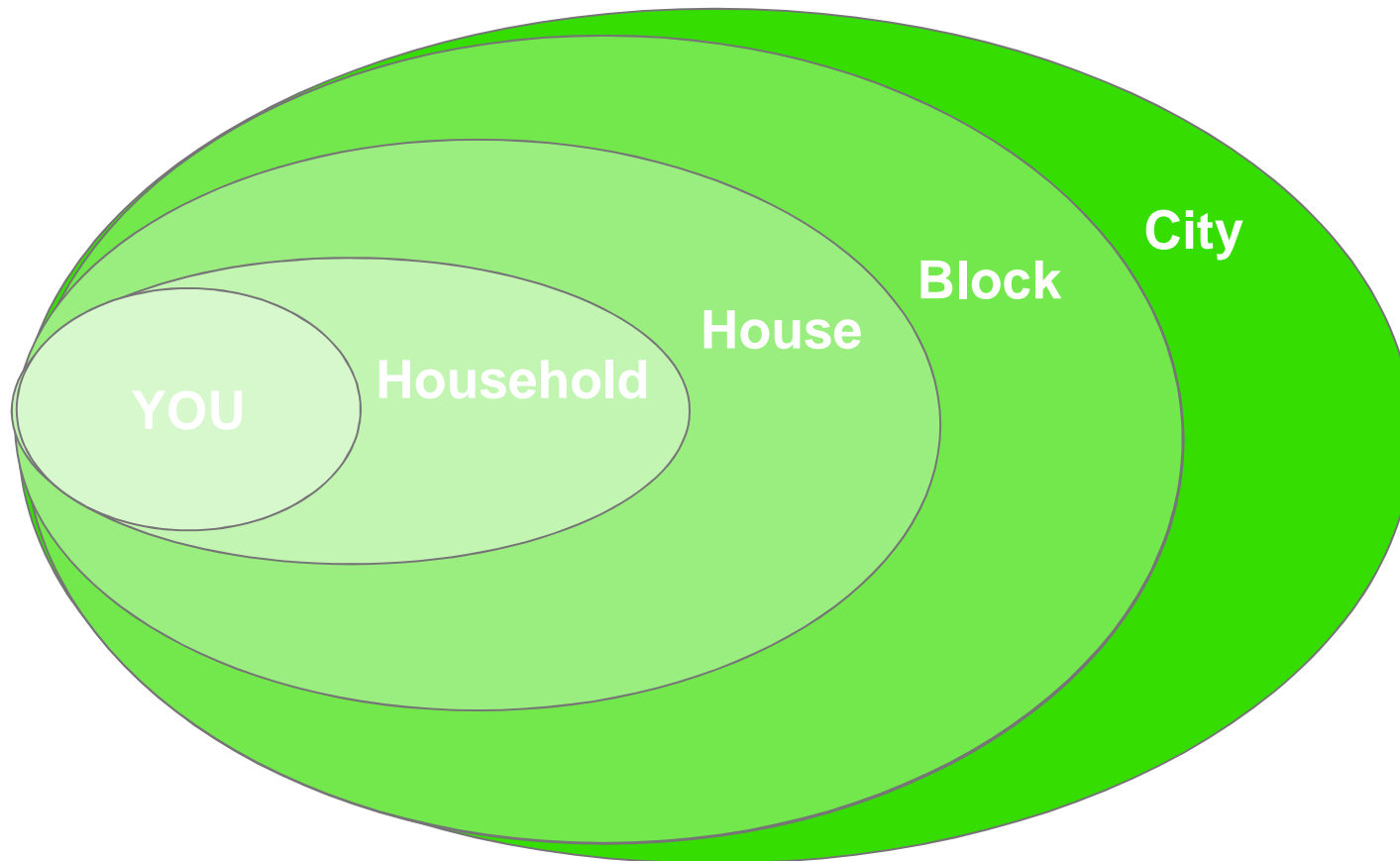
AN INFRASTRUCTURE APPROACH

Ericsson together with World Wide Fund (WWF) have developed an infrastructure approach to assess CO₂ savings from implementing low carbon ICT services. This allows savings related to infrastructure to become visible.

It includes emissions at four different levels for a provided service:

1. **Immediate** emissions
2. **Life-cycle** emissions
3. Emissions of infrastructure **operations**
4. Life-cycle emissions of **support** infrastructure

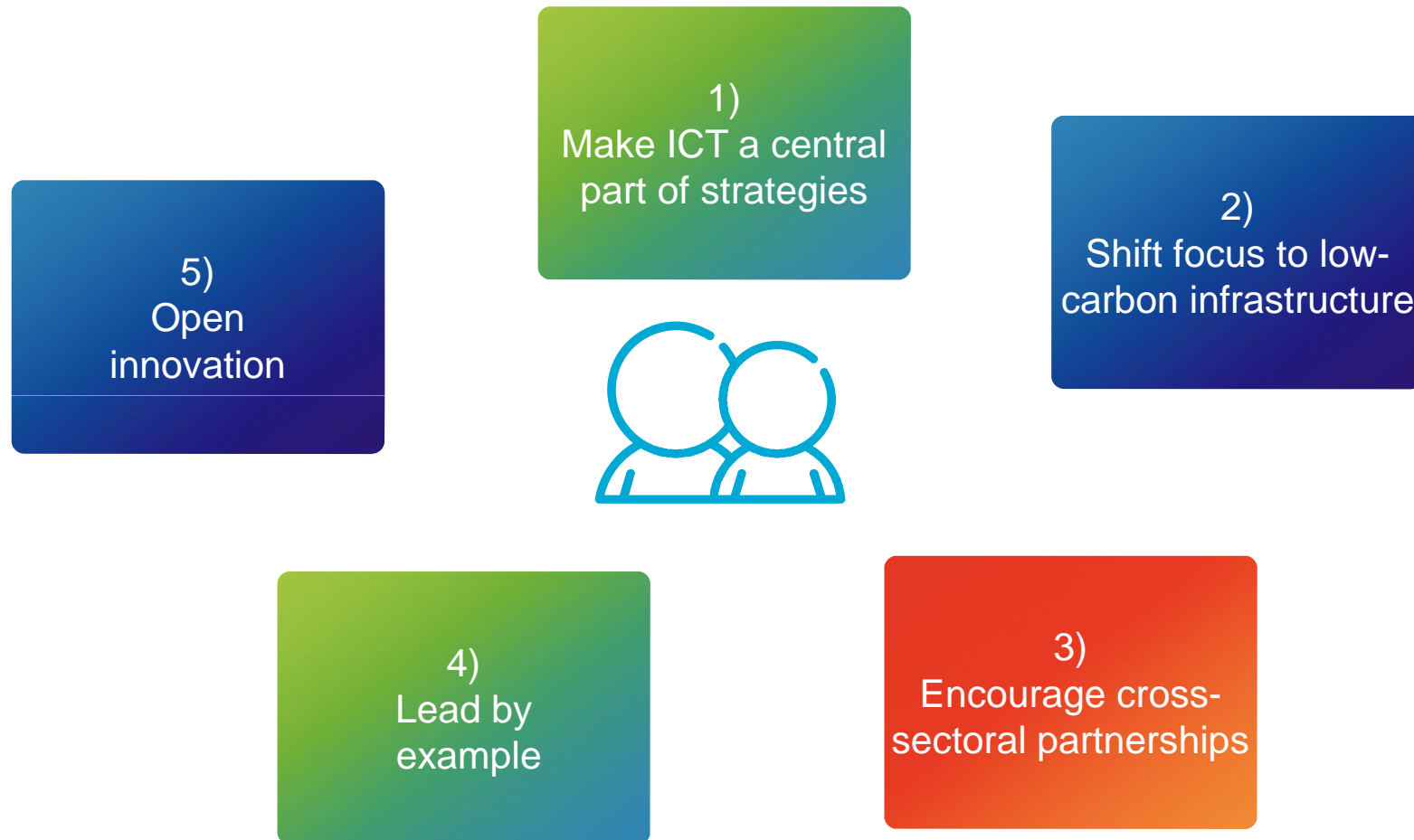
SOLUTIONS FOR THE SUSTAINABLE CITY



5 STEPS TO A LOW CARBON FUTURE



5 STEPS FOR A LOW-CARBON SOCIETY



THE FUTURE DEPENDS UPON THE DECISIONS MADE TODAY

The most energy-efficient infrastructure ever created, broadband telecommunications will provide a key role in reducing carbon emission and stimulating the economy during this revolution.

Reduction potential needs to be agreed together with other sectors





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