



DI EP Lazio
Department of Epidemiology
Lazio Regional Health
Service, Italy



SISTEMA SANITARIO REGIONALE

ASL
ROMA 1



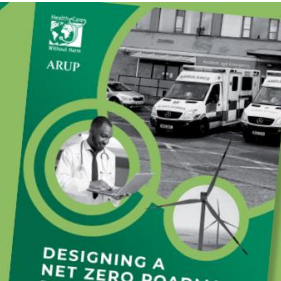
REGIONE
LAZIO

Developing roadmap to decarbonise the Health System. Lazio Region case study

F. de'Donato

LAUNCH EVENT
DESIGNING A
NET ZERO ROADMAP
FOR HEALTHCARE

01 SEPTEMBER 2022, 10:00 - 11:30 CEST



Background

Climate change is impacting on our environment and our health. Adaptation and mitigation measures need to be implemented and health needs to play a leading role.

Objective: to estimate healthcare emissions and to develop a decarbonisation roadmap that is compatible with EU, national and regional policies

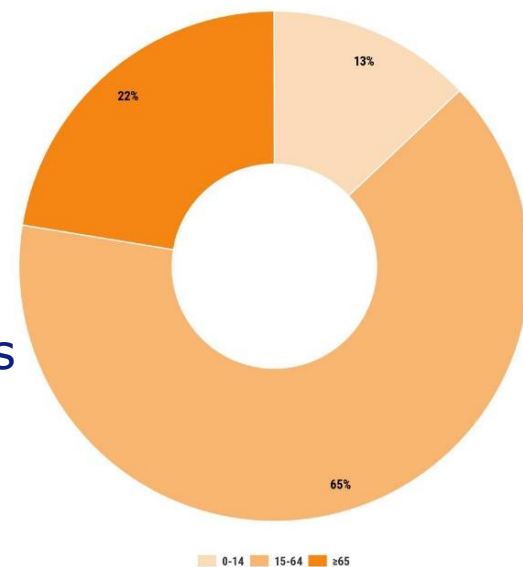
Enhance the link between climate and health policies to improve resilience and response of the health sector and promote health in all policies

Setting: Lazio Region, Italy

Area: 15900 km²
GDP: 200 million €
Population: 5,8 million
Pop density: 359 inhab/km²
Life expectancy: 82,7
Ageing pop: 22% over 65 years
40% has 1 chronic disease

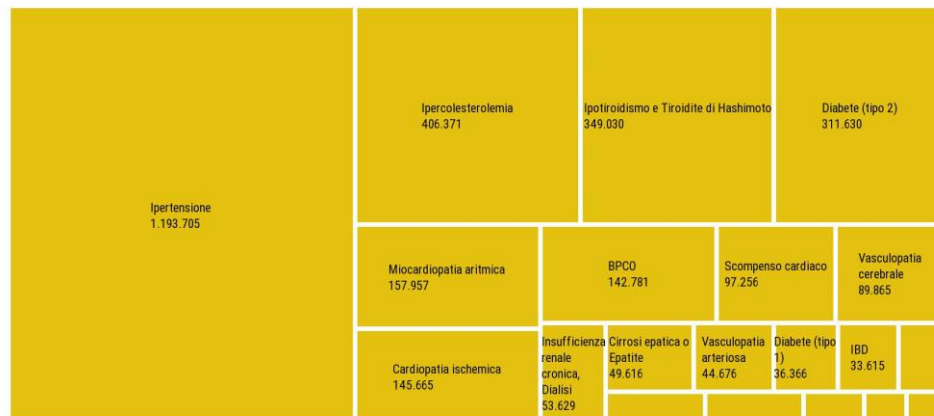


Classi di età Regione Lazio - 2021



Fonte: www.opensalutelazio.it

Frequenza di malattia prevalenza Regione Lazio - 2020



Fonte Sistemi Informativi Sanitari Lazio

Lazio Regional Health system



- universal public healthcare system coordinated by MoH and administered on a devolved regional basis.
- main source of financing is national and regional taxation, supplemented by co-payments for pharmaceuticals and outpatient care



- 10 Local Health Authorities (55 districts)
- 60 hospitals
- 500+ Health services
- 900+ Private and accredited hospitals, clinics and health care services

Existing policies



DGR 170 2021 Regional Strategy for Sustainable Development – UN SGD Agenda 2030

G11-G13 Reduce GHG emissions
Promote sustainable, liveable cities
Regional climate change adaptation plan

Health co-benefits

Existing policies



EU recovery funds Italian Plans: PNRR – PNC

Digital transition – promote digital technologies, infrastructures and universal access

Green transition (renewable energy, sustainable mobility, building efficiency)

Economic and societal resilience – research and education, enhancing social and territorial cohesion

Health – e-health, digitalization, improving health care services and modernization of health system



DGR 595 2022 Regional energy plan (PER)

Reduce CO2 emissions 80% by 2050

Reduce energy consumption by 30% by 2050

38% renewable energy by 2050

Existing policies – Health



PIANO REGIONALE DELLA PREVENZIONE 2021-2025

DGR 970 – 2021 Regional prevention plan (PRP) 2021-2025

- Health promotion and prevention
- Interconnections between Environment and Health address climate change.
- Promote equity
- Sustainable development and sustainability of the health care system

Italy's health sector emissions fact sheet



Italy

HEALTH SECTOR EMISSIONS FACT SHEET



ARUP

Global Road Map for Health Care Decarbonization

Key facts (2014)

Health care spending as % of GDP:	9.0%	Health care emissions as % of national total:	4.0%
Health care gross emissions (MMtCO ₂ e) ¹ :	21.3	Health care per capita emissions (tCO ₂ e) ¹ :	0.35
Rank among 68 nations in study, gross emissions:	15	Rank among 68 nations in study, per capita emissions:	38
Proportion of emissions from domestic economy:	50.8%		

Topography: Italy's health care climate footprint

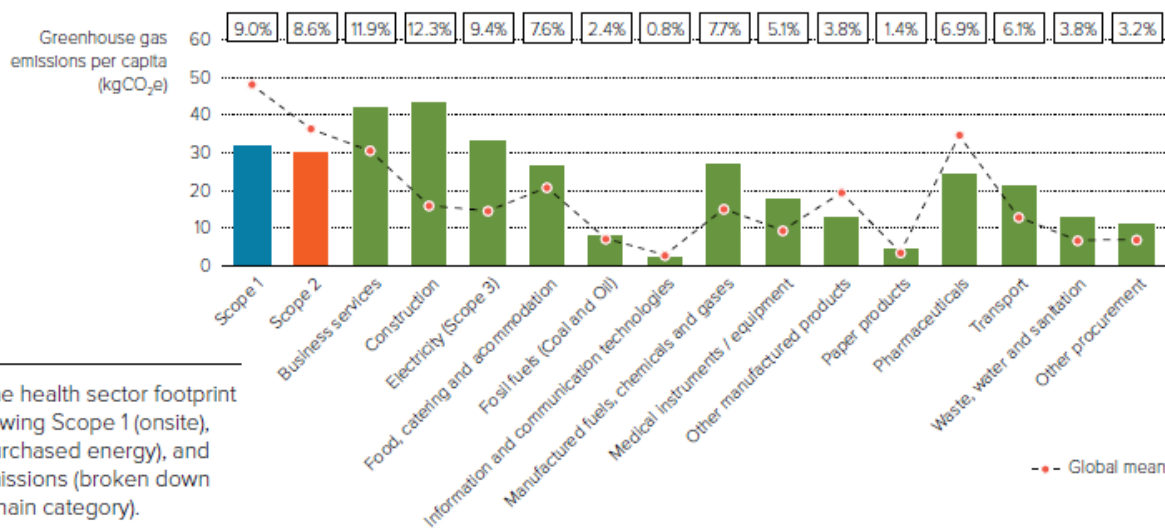
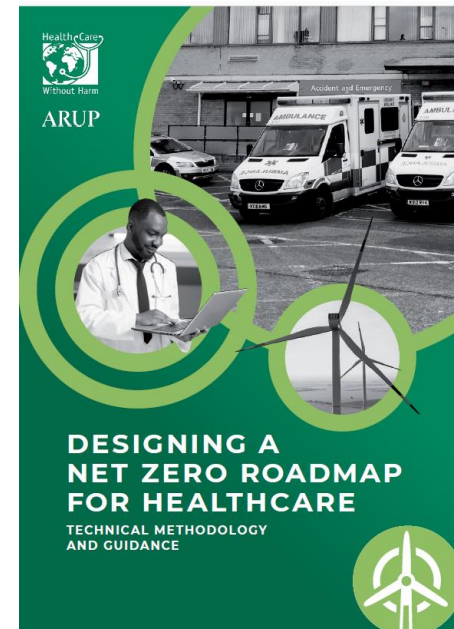


Figure 1. The health sector footprint in 2014, showing Scope 1 (onsite), Scope 2 (purchased energy), and Scope 3 emissions (broken down by supply-chain category).

Lazio 9% national emissions

Operational steps Lazio Roadmap

- Mapping policies (identifying gaps)
- Intercepting current networks and stakeholders
- Governance structure
- Data collection
- Baseline calculations - Top down approach
- Stakeholder mapping (different stages) and engagement strategy
- Define future trajectory (scenarios)
- Roadmap definition, decarbonization action discussion and review with stakeholders



Challenges

- Finding contacts and stakeholders from health (expenses, programming, prevention), environment to financial sector.
- Retrieving regional overall health expenditure data in the format required System Health accounts-ICHA-HP International classification of health care providers (detailed data)
- Aligning health care expenditures with emissions inventory defining baseline year\study period and model choices
- Creating network stakeholders at regional level
- COVID-19 pandemic (hindered actions but an opportunity stronger policy framework)

Next steps

- Finalize calculations
- Evaluate scenarios
- Intersectoral group discussions for definition of actions within current policy framework
- Evaluation/monitoring (new and current policy frameworks)
- Define in-depth calculations at Local Health Authority level to account for different geographical settings and health system characteristics (Urban area Rome, rural, hot spots) to create more *ad hoc* scenarios feasible for policy.



il Dipartimento di Epidemiologia del Servizio Sanitario del Lazio (DEP) con sede a Roma è un'istituzione attiva da oltre 30 anni

Thank you

email: f.dedonato@deplazio.it

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