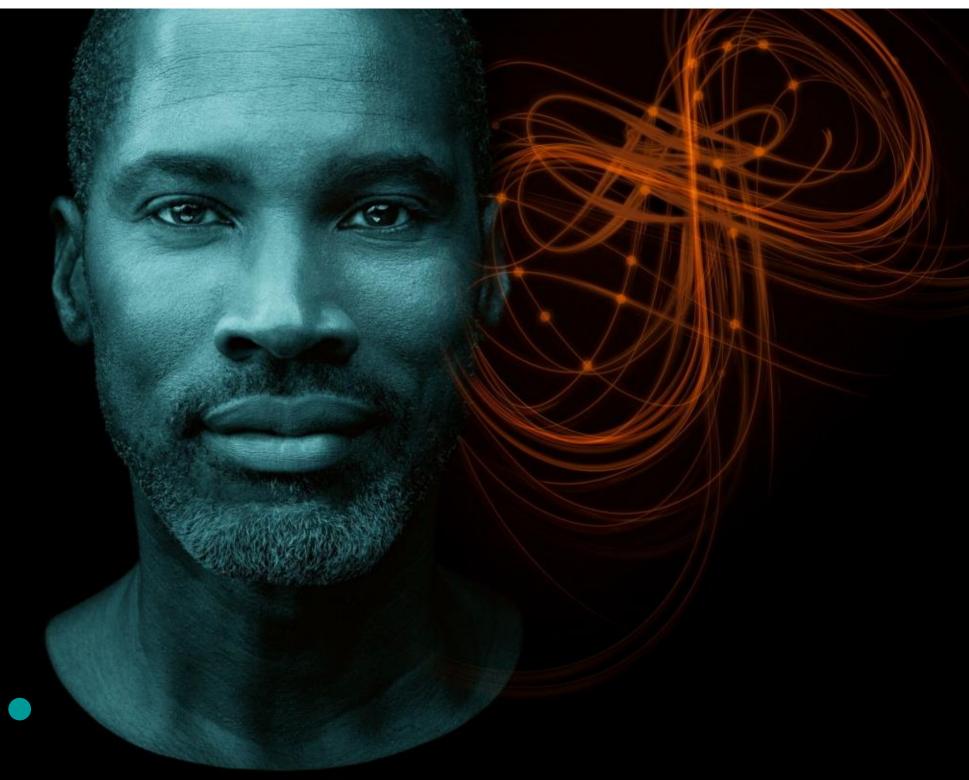


# Sustainable Private Public Partnerships (PPP)

6<sup>th</sup> Istanbul PPP Week

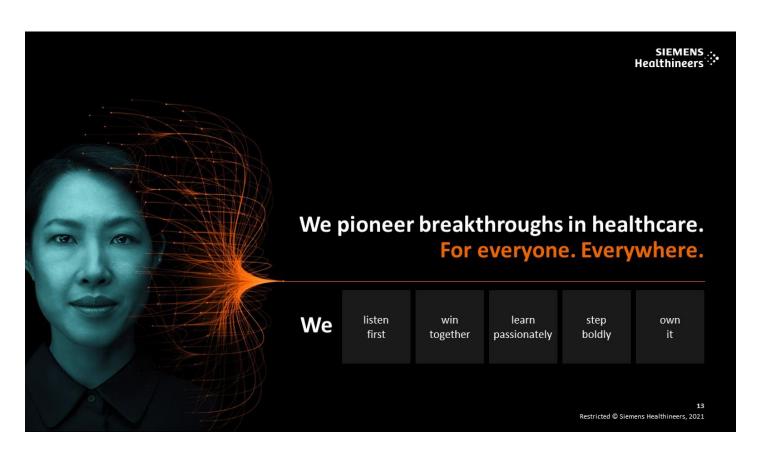
Natalia Korchakova-Heeb December 8, 2021



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### Introduction



### **Eng. Natalia Korchakova-Heeb**

- PPP-Speaker of German Health Alliance
- Chair of the PPP Health Chapter, Member of the Steering Committee, World Association of PPP Units an PPP professionals (Switzerland)
- Coordinator of Working Groups on Global Partnerships, Global Health Hub-Germany
- Certified Expert for Green Buildings



### Global Lead for PPPs and **Greenfield Hospitals**

- Global PPP / Greenfield Domain expert to increase SHS business in PPP / Greenfield projects
- Drive networking with relevant partner groups and internal stakeholders
- Create active global community of PPP/Greenfield champions in focus countries, incl BA's, BH's and Corporate Units

### Who we are



€18bn

revenue FY2021<sup>1</sup>

>70

countries with direct presence

~66,000

highly skilled employees

22,000+ technical IPRs, thereof 14,000 granted patents

### **Market leader**

in majority of businesses



>90%

of leading hospitals collaborate with us<sup>2</sup>

>60

Al-supported product offerings

- >35% of revenues based on innovations introduced in last three years<sup>3</sup>
- >70% of critical clinical decisions are influenced by the type of technology we provide<sup>4</sup>
- >600,000 installed base

<sup>1</sup> Revenue FY2021 Siemens Healthineers including Varian's revenue contribution for the period from April 15 to September 30, 2021 |

**<sup>2</sup>** Based on hospital rankings in the U.S., China, and Germany | **3** Targeted on a regular basis, 2020 = ~40% | **4** AdvaMedDX, "A Policy Primer on Diagnostics"

## UN Sustainable Development Agenda 2030 sees PPPs as an instrument to closing infrastructure/services gap by 2030



### SUSTAINABLE GALS DEVELOPMENT GALS





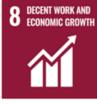






















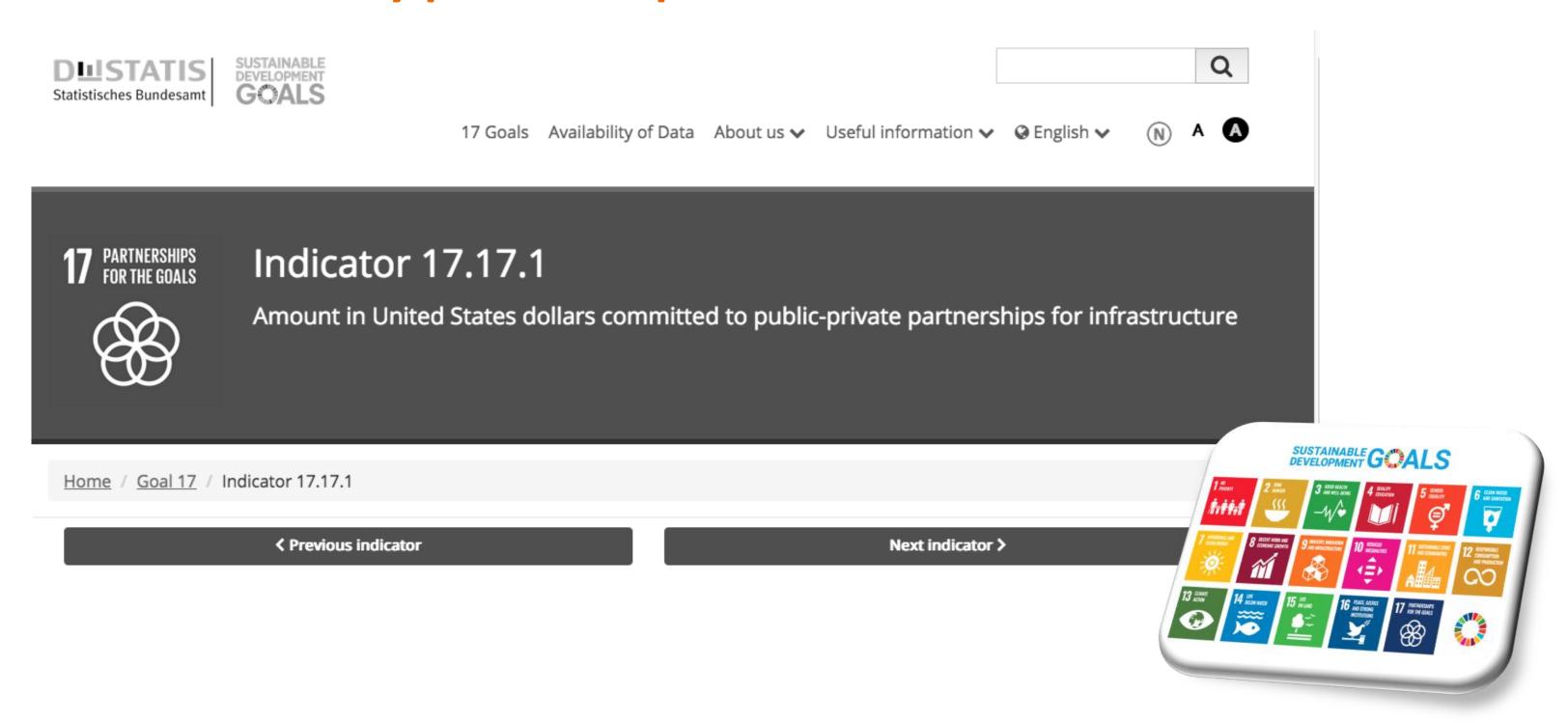
12 RESPONSIBLE CONSUMPTION AND PRODUCTION





## Governments have to report on Target 17.17: Encourage and promote effective public, public-private and civil society partnerships





### SDGs and ESG



#### **ESG Frameworks**

**ESG** – various risk management frameworks, adopted by financial institutions, for determining, assessing and managing environmental and social risk in project investments (Equator Principles, UN Principles for Responsible Investment (PRI)), SFDR (EU)

Environmental Responsibility, which includes energy use, waste management, and climate change.

Social Responsibility, including labor relations, human rights, diversity and inclusion, and product liability.

Governance, which includes compliance, business ethics, controls, and procedures.

- No harm app approach
- Compliance (no indicators/targets)
- Not time bounded
- Not universal

### **Sustainable Development Goals (17 Goals)**



- Voluntary and Pro-active
- Integrated/Indivisible/Complementary
- Measurable
- Time-bounded
- Universal
- Moral imperative and call for actions

### What Makes Healthcare PPPs Sustainable?



Sustainable Procurement	Sustainable Design	Sustainable Construction	Sustainable Finance	Sustainable Medtech	Sustainable Operation	Sustainable FM
<ul> <li>Green Procurement</li> <li>Value based procurement</li> <li>Gender-smart procurement</li> <li>Sustainable procurement</li> </ul>	<ul> <li>Architectural design</li> <li>Healing Environment</li> <li>Orientation</li> <li>Shading</li> <li>Interior green spaces</li> <li>Colors</li> <li>Energy reduction strategies</li> <li>Biodiversity</li> </ul>	<ul> <li>Sustainable Materials</li> <li>Waste Management</li> <li>Reduction of carbonfootprint of construction works and the building</li> <li>Management of the site</li> <li>Biodiversity</li> <li>Sustainable Decommissioning</li> </ul>	<ul> <li>Green Finance</li> <li>Impact Finance</li> <li>SDG Investors</li> <li>Social Investors</li> <li>Climate Finance</li> <li>ESG frameworks</li> </ul>	<ul> <li>Medtech planning, procurement, project management, health &amp; safety, installation, &amp; commissioning</li> <li>Medtech lifecycle management including operations, maintenance, &amp; technology refresh</li> <li>Energy efficiency</li> <li>Packaging</li> <li>Waste Management</li> </ul>	<ul> <li>Leadership staffing</li> <li>Diversity and Inclusion</li> <li>Gender Equality</li> <li>Access to Care</li> <li>Clinical services project management</li> <li>Clinical staffing &amp; associated services</li> </ul>	<ul> <li>Building works &amp; maintenance</li> <li>Energy-efficient, water-efficient solutions</li> <li>Smart solutions</li> <li>Reduction of carbonfootprint of FM</li> </ul>

### Sustainable Design / Bendigo PPP Hospital





- Set new standards w/ bigger wards, more single rooms, technology innovations
- Flooded w/ natural light and surrounded by 46 courtyards and terraces
- Multidisciplinary collaboration w/ cancer center bringing together oncology, radiotherapy and specialist clinics
- Helipad to get life-critical care faster
- 80 mental health beds located within hospital to destigmatizing mental illness
- Victoria's first regional 24/7 mother and baby unit



- First energy-efficient, sustainable and future-ready facility in Victoria w/ uninterrupted power supply (UPS) and tri-generation plant (electricity, cooling, heating)
- 770 solar panel array as clean energy for hospital's main power boards providing CO2 reductions of 300,000 kg / p.a.
- 1,000sqm green roof to reduce glare and improve acoustic and thermal performance
- Roof area harvests and recycles 95% of its rainwater collection

## Bendigo PPP Hospital: Bringing in technology, sustainability and innovations to shape significant benefits





- Connected to 96 interfaces to ensure a future-readiness and reliability 24/7
- Patient entertainment system w/ health information, food ordering system, etc.
- **Digital medical records** stored in one unified, safe and secure data bank
- 16 different **telehealth services** providing specialist consultations to patients
- Real time location technology for medical equipment
- Automated guided vehicles (AGVs) to for efficient standard processes



- Biggest regional development in Victoria's history
- Boost for regional healthcare services and local Bendigo economy
- Project created ~140 jobs and maintained a further 542
- Right foundation and information architect-ture w/ technological capabilities to continue to innovate for the next 20 year
- PPP setup provided Victoria a value-for-money of >\$200 million

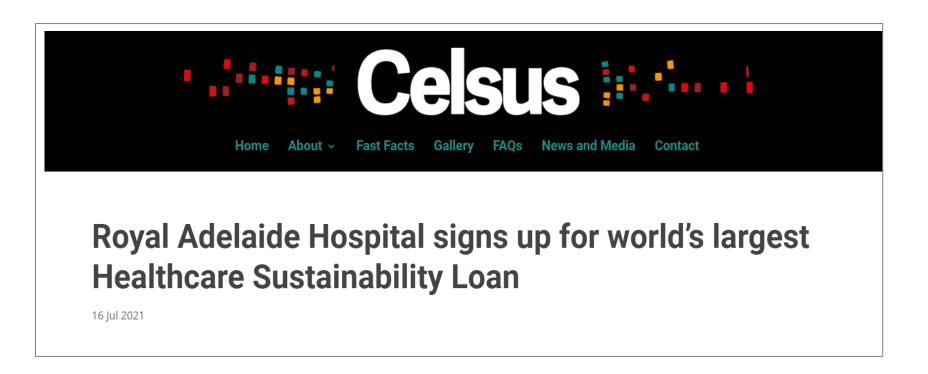
### Sustainable Finance/Royal Adelaide Hospital

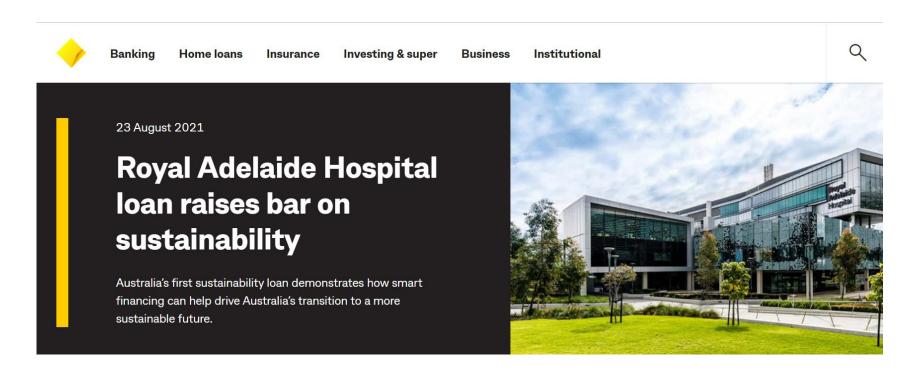


### Sustainable Finance

- Green Finance
   Social Investors
- Climate Finance

- ESG frameworks
- Impact Finance
- SDG Investors







## The impacts of procurement on PPPs



### Every product and service has a huge range of environmental impacts, across the product life-cycle of PPP projects

Supply Chain	Usage	Disposal
<ul> <li>Consumption of raw materials</li> <li>Energy/water use, emissions and (toxic) waste from industrial processing and transportation</li> </ul>	<ul> <li>Energy/water consumption</li> <li>Generation of waste and emissions</li> <li>Use of consumables</li> </ul>	<ul> <li>Generation of waste</li> <li>Toxic emissions</li> <li>Potential new raw material</li> </ul>

## Green Public Procurement in the EU (GPP)





- Require high energy efficiency standards for buildings and products
- Purchase green electricity
- Shift to zero emission vehicles (and encourage suppliers to do the same)



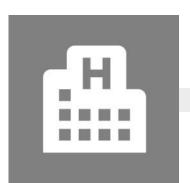
- Shift to zero emission vehicles (and encourage suppliers to do the same)
- Require cleaning services to be carried out with ecolabel compliant products
- Specifying organic in food and catering contracts



- Promote circular economy solutions
- Require **extended product** lifetimes, and guarantee of spare parts
- Demand reduced or reusable packaging
- Encourage the use of recycled materials in construction

## How sustainable is private sector? We set ourselves ambitious targets for FY25 and beyond





### Improve quality of life through access to healthcare and innovation

220

patient touchpoints in underserved countries<sup>1</sup> (FY20: 147'; FY30: 260') ≥ 35%

revenue from innovations brought to market in last 3 years (FY20: ~40%, regularly ≥35 %) 110

Al supported products on the market (FY20: 63; FY30: 160)



Contribute to a regenerative and healthy environment

130 kt

net CO<sub>2</sub>e emissions from scope 1 and 2 (FY19: 197; FY30: 0)



Advance diversity and inclusion and drive employee engagement

26%

women in Senior Management<sup>2</sup>

(FY20: 17%; FY30: 30%)

8.5

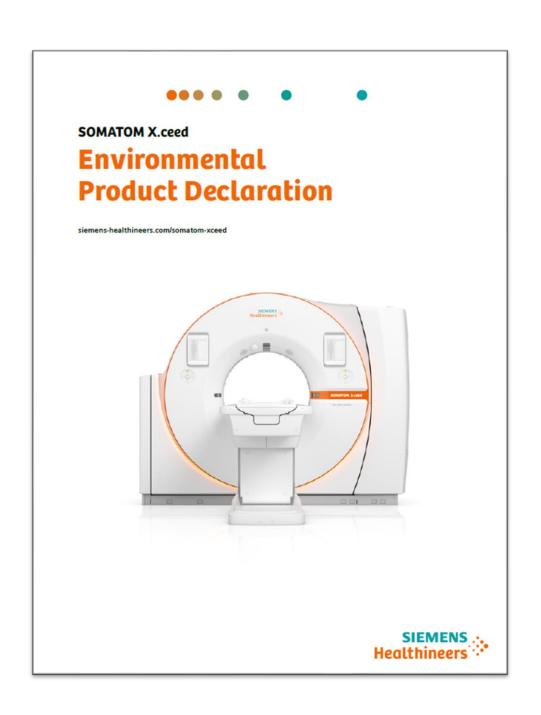
employee engagement index, maintaining top 25% industry benchmark (FY20: 8.2, top 25%; FY30: 8.7, top 10%)

<sup>1</sup> Based on 90 countries in scope: Defined by World Bank as low-income and lower-middle income economies and SHS specific additions |

<sup>2</sup> In addition: adherence to country specific legal requirements

## **Product Sustainability at Siemens Healthineers**





An Environmental Product Declaration (EPD) is an independently verified and registered document that communicates transparent and comparable data and other relevant environmental information about the life-cycle environmental impact of a product.

## Innovating to sustainably enable healthcare for everyone, everywhere



**Increasing Access to Care is** a core strategy



All future buildings will be carbon-neutral







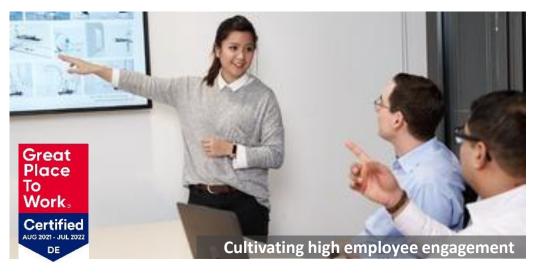






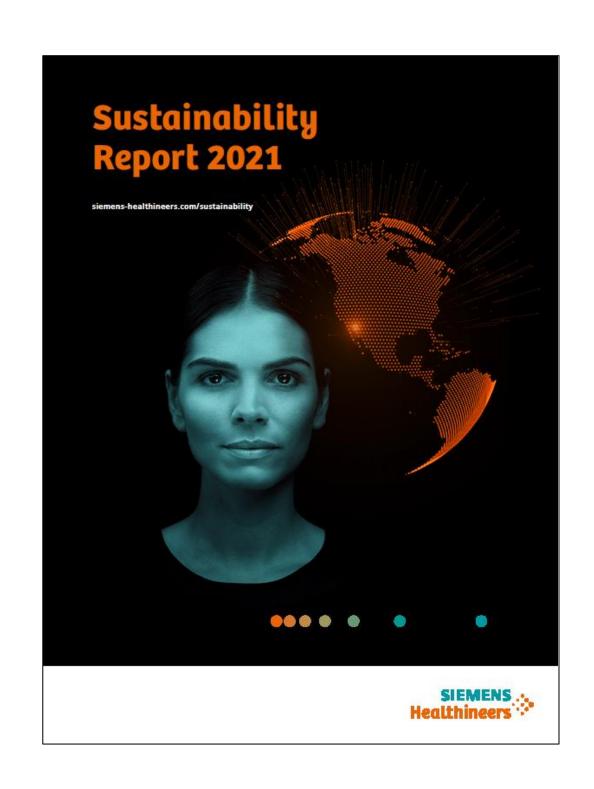






## Our Sustainability Reports 2021 - Technology with Purpose







## Thank you for your enthusiasm!



#### **Siemens Healthineers**

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