



PARANÁ

BX

BUSINESS
EXPERIENCE

/2021

ACHIEVEMENT:



SUPPORT:



OPPORTUNITIES IN BRAZILIAN ENVIRONMENTAL SANITATION: SANEPAR' PERSPECTIVES

CLAUDIO STABILE – CEO



WHO IS SANEPAR?



Our Mission:

“Ensuring environmental sanitation services in a **sustainable and innovative** way, contributing to economic and social development”

SANEPAR IN NUMBERS



WATER:

~11 millions hab.
168 WTPs
+57,000 km pipes



SEWAGE:

~8 millions hab.
255 STPs
+38,000 km pipes

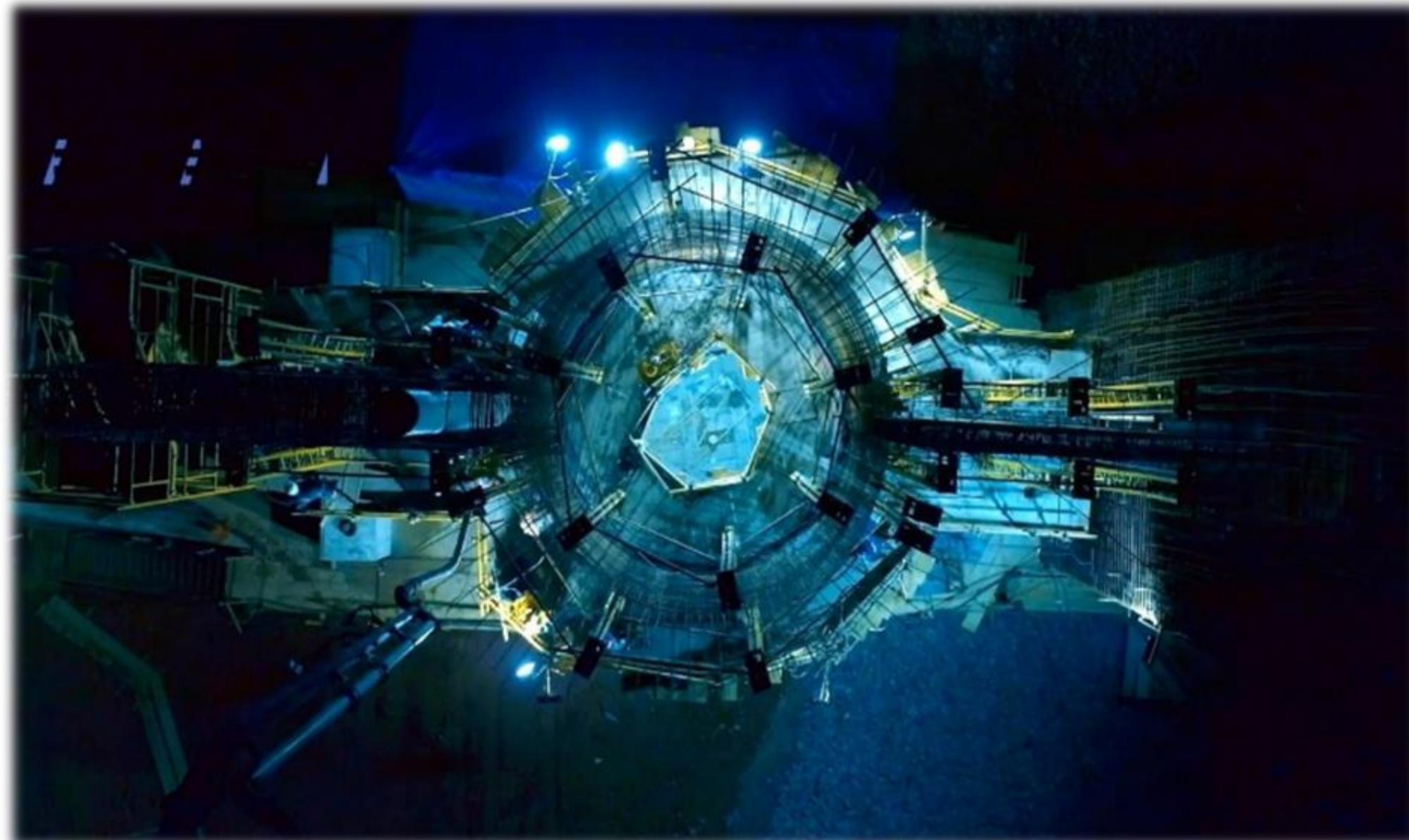
since
1963

346
municipalities

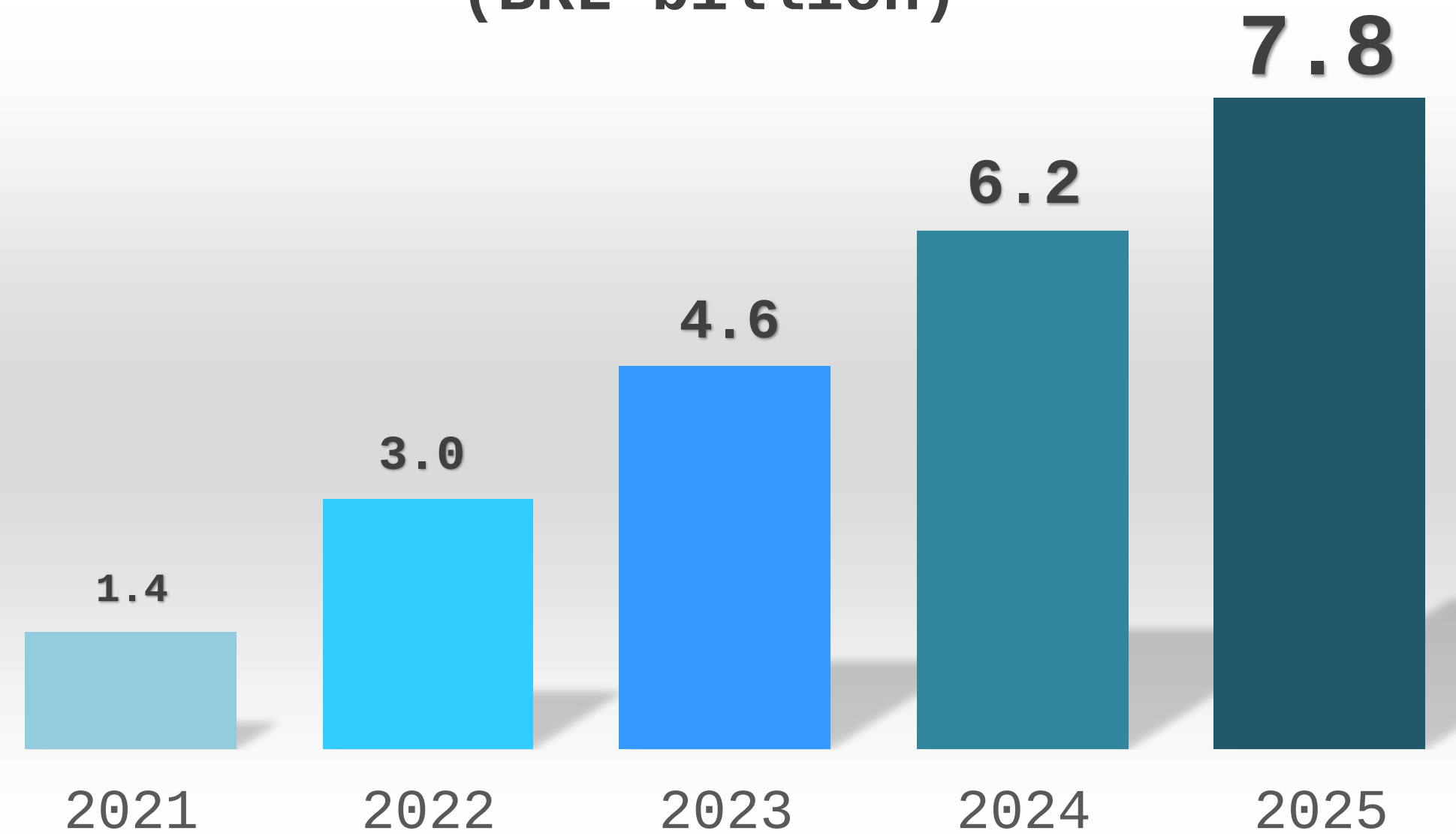
SANEPAR' INVESTMENTS

AAA(bra)

Fitch and Moody's ratings



ACCUMULATED CAPEX PLAN (BRL billion)



BRL 4.65 billion (2016-2020)

CHALLENGE AND OPPORTUNITY: ADAPTATION TO CLIMATE CHANGES



Infrastructure resilience
Carbon footprint reduction
Conservation of water
bodies

CHALLENGE AND OPPORTUNITY: SUSTAINABLE SERVICES FOR ALL

New Brazilian law for water and sanitation sector!



100% water

~80% sewage

CHALLENGE AND OPPORTUNITY: EFICIENCY ENERGY



Electricity consumption

+700 GWh/year

+4,000 units

~BRL 0.5 billions/year

CHALLENGE AND OPPORTUNITY: RENEWABLE ENERGY

Hydraulic



gravity systems

from water dams to output STP

hundreds of micro/mini potentials

Solar



WTP/STP land and roof

floating systems

average irradiation(PR): +1.7 MWh/m²/year

Biogas



+200 anaerobic STPs

+6 million m³/year

Electricity, heat, biomethane, CO₂

CHALLENGE AND OPPORTUNITY: SLUDGE TREATMENT AND REUSE



SEWAGE :

+45,000 ton TS/year

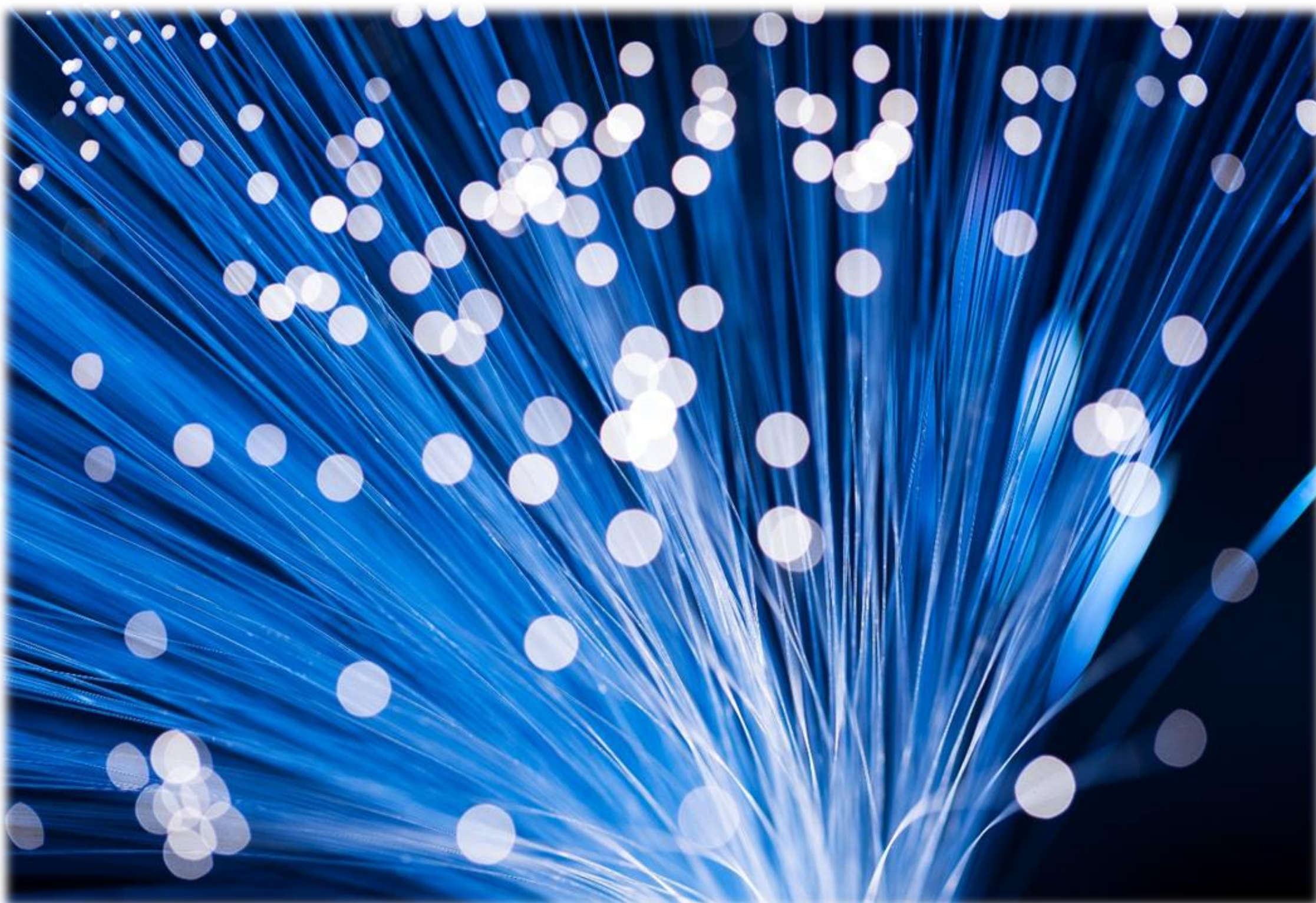


AGRICULTURE :

+300,000 ton (2007-2021)

Circular Economy: nutrients +
energy

CHALLENGE AND OPPORTUNITY: OPTICAL FIBER IN SEWER



Total: +37,000 km sewage pipes

Top 10 cities:

+17,000 km sewage pipes

+5.7 million hab.

Infrastructure Sharing

Economy

FINAL CONSIDERATIONS



“Working together
to promote
environmental
sanitation!”

THANKS!

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