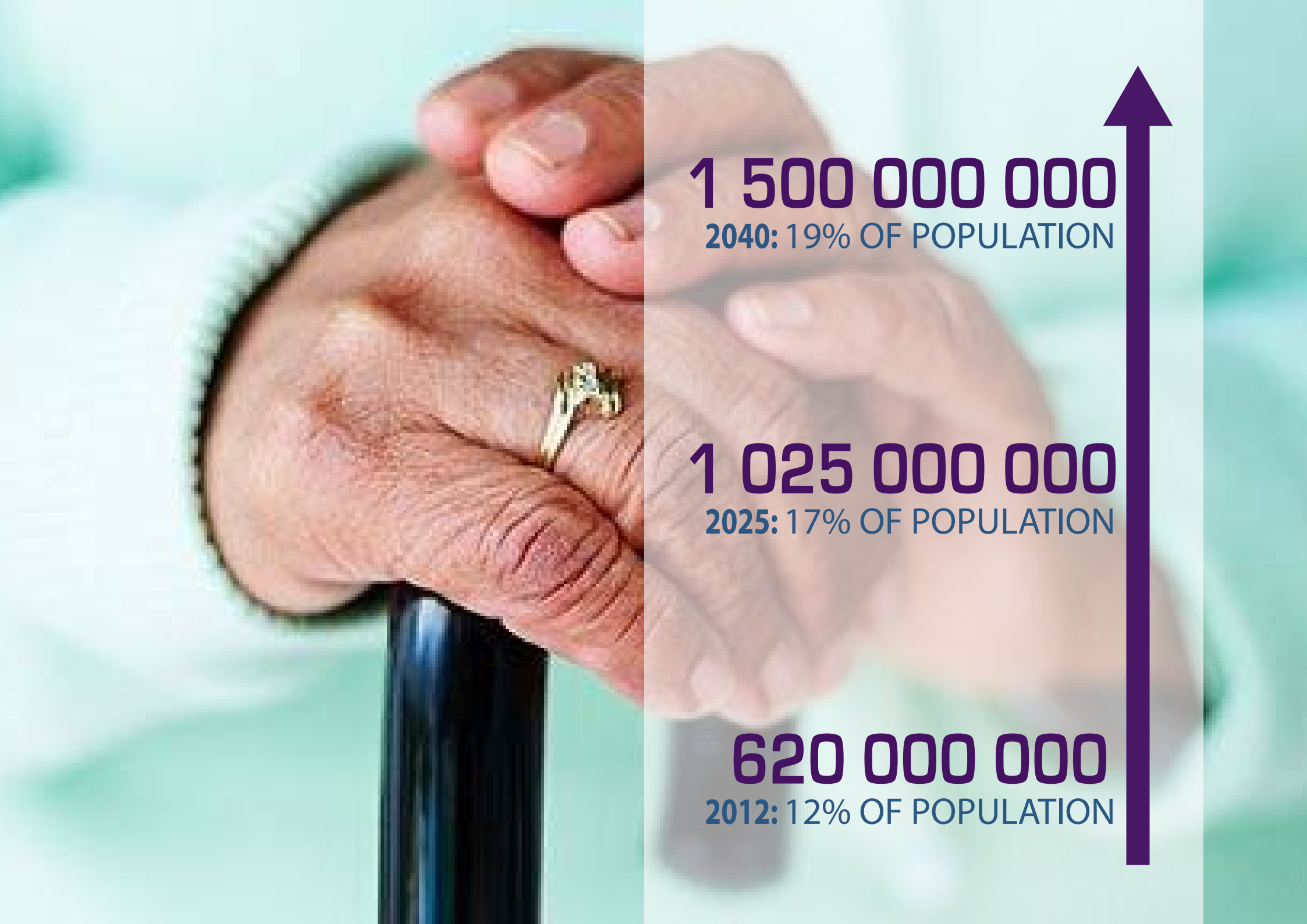


Carbon nanotubes X-Ray systems for Medical Sterilization



1 500 000 000

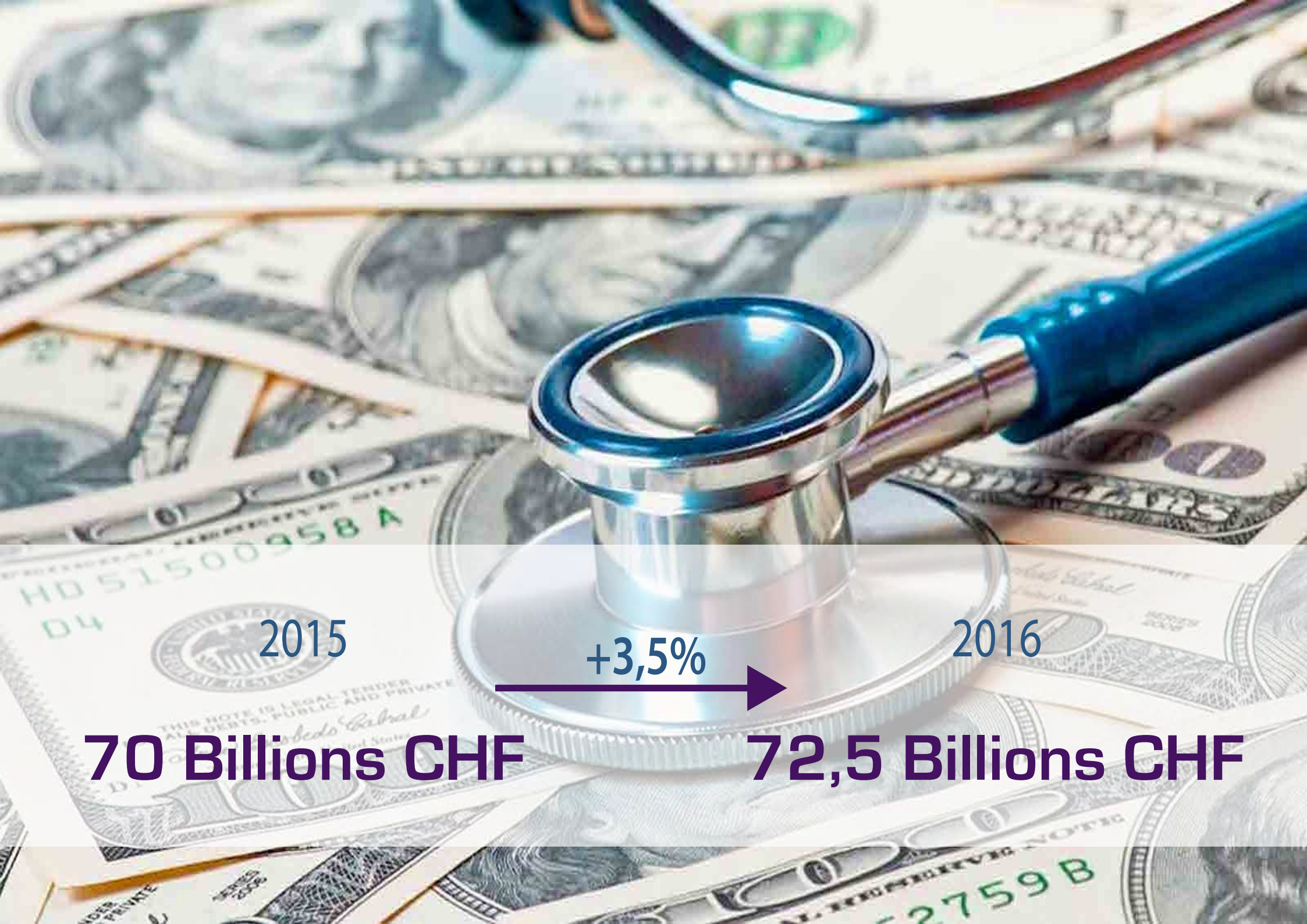
2040: 19% OF POPULATION

1 025 000 000

2025: 17% OF POPULATION

620 000 000

2012: 12% OF POPULATION



2015

+3,5%

2016

70 Billions CHF

72,5 Billions CHF

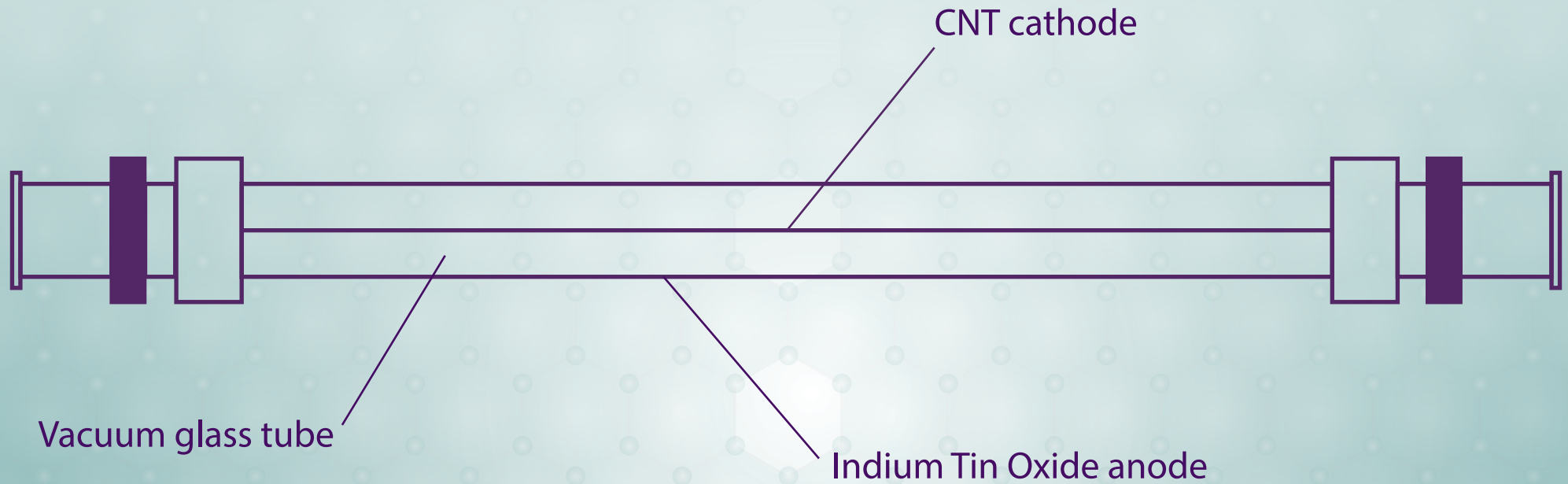
???

Flo Rida - GDFR ft. Sage The Gemini and Lookas [Official Video]

Raised price of life saving pill from 13,5\$ to 700\$



NANO-RX



- higher longevity
- lower manufacturing costs
- miniaturisation without loss of power

NANO-RX

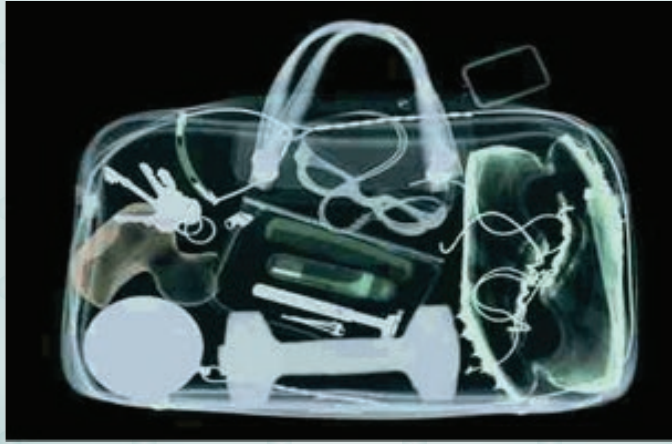


- energy from 10 to 100keV
- current density up to 3A/cm²

X-RAYS APPLICATIONS



IMAGING



SECURITY



INSPECTION



Medical devices sterilization is the key to reduce

PATIENT INFECTION

STERILIZATION TECHNOLOGIES

Methods	Pros	Cons
Autoclave	■ Fast ■ No toxic residues	■ Incompatibility with thermo-sensible polymers
EtO	■ High compatibility	■ Toxic residues ■ Slow ■ Surface sterilization only ■ Third party sterilization only
H2O2	■ High compatibility ■ Fast ■ No toxic residues	■ Surface sterilization only
Gamma rays	■ High penetration ■ Fast	■ Radioactivity ■ Low compatibility ■ Third party sterilization only
X-Rays	■ High penetration ■ Fast ■ No toxic residues	■ Third party sterilization only

X-RAY STERILIZATION

Pros:

- **high penetration**
- **fast**
- **clean-sustainable**

X-RAY STERILIZATION

Pros:

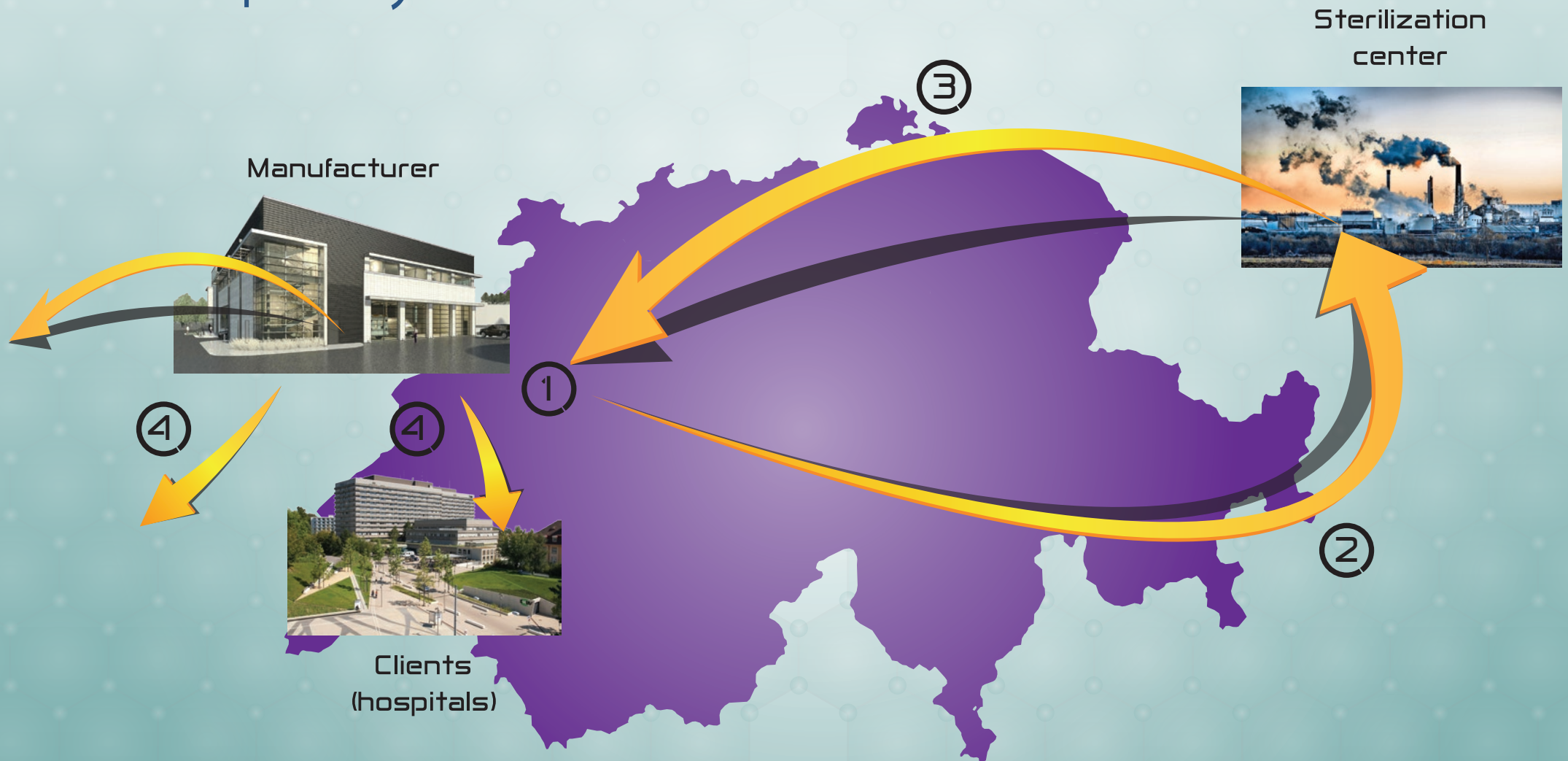
- high penetration
- fast
- clean-sustainable

Cons:

- costs
- size of infrastructures



Third party sterilization



Takes 2 weeks or more/batch and cost an average 180kCHF/year

On site sterilization



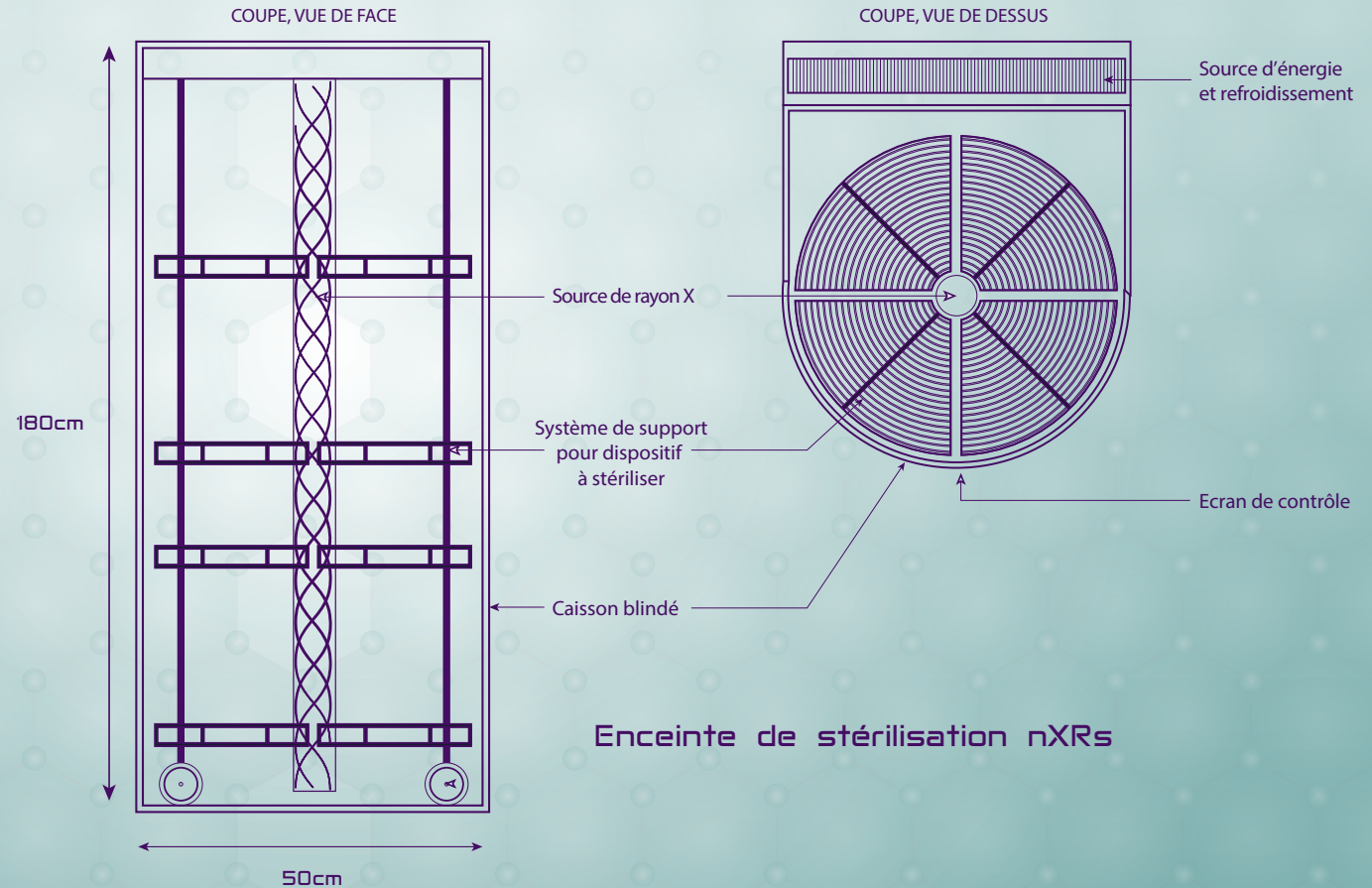
Reduction of costs and delay, better control of sterilization process



n
n a n o

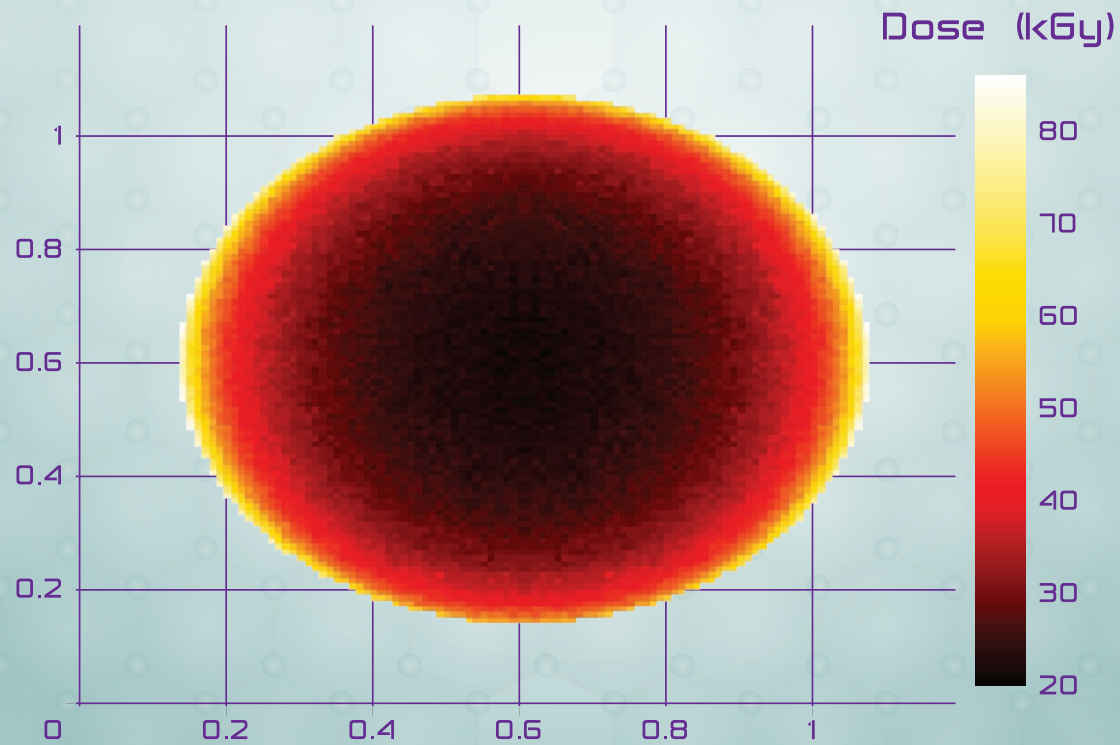
R S
X-ray systems

The RX-1 sterilization system



MODELISTISATION

PVC, 100keV, 50mA, 30min



CONTACT



Erwann VIEU

CEO, founder

 **+41 78 748 45 81**

 **erwannvieu@gmail.com**

 **erwann.vieu@heig-vd.ch**

www.nxrs.ch

Rue Galilée 7, 1400 Yverdon-les-Bains