

# E-Waste 2.0

## RECYCLING FOR SUSTAINABILITY

### E-waste comes in many forms



mobile phones



notepads and tablets



laptops and PCs



TVs and screens



plugs and cables

### E-waste is ubiquitous

We need to change the status quo



Did you know we produce almost **50 million metric tonnes** of e-waste each year?



That's equivalent to 125,000 jumbo jets, more than **82 times** the number of these **planes ever built**



**One tonne of electronic waste is the equivalent of about:**

37 TVs, 135 desktop computers, 3,333 computer keyboards, or 8,000 mobile phones

### E-waste and YOU

Almost everyone has at least a mobile phone

How often do you replace it?

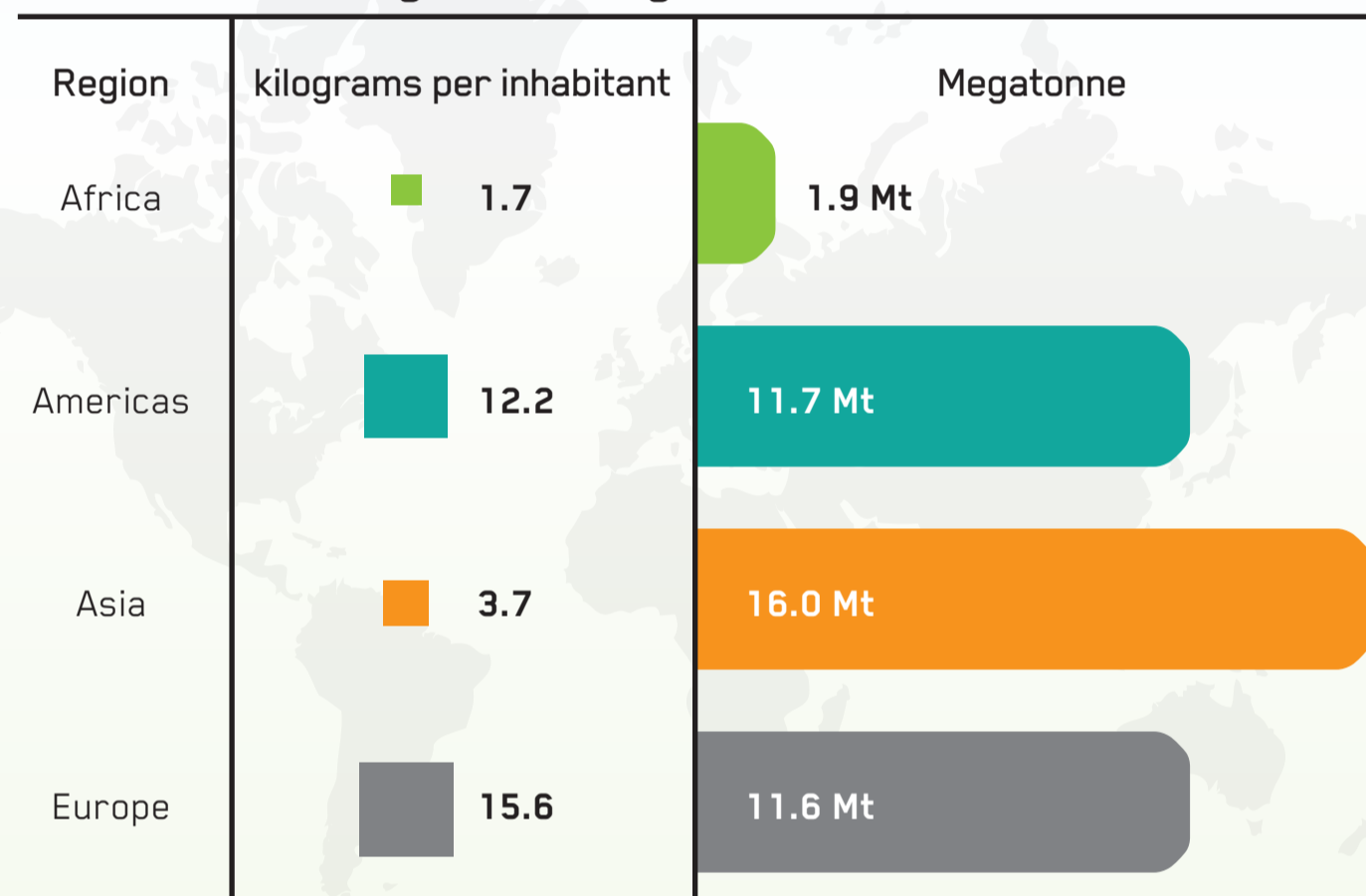


Average shelf-life is 24 months

2016

2018

### Who is generating the most e-waste?



### E-waste, health & environment

Transforming a vicious circle into a virtuous one



**Central nervous system** - affected by antimony, arsenic, beryllium, lead, mercury, polychlorinated biphenyls (PCB)



**Digestive and urinary system** - affected by antimony, cadmium, lead



**Reproductive and endocrine system** - affected by brominated flame retardants, dioxins and furans (PCDD / PCDF), DDT, lead



**Respiratory system** - affected by arsenic, chromium, mercury, vinyl chloride



**Blood** - affected by lead, mercury



**Skeleton** - affected by cadmium, lead



**Immune system** - affected by dioxins and furans (PCDD / PCDF), DDT, PCB

Prevent chemicals from entering your body

### Manage your e-waste for a better future



**1. Let electronics live longer: reuse and refurbish.** Don't change your iPhone every six months!



**2. Give your electrical and electronic devices back to recycling networks or retailers** when possible.



**3. Handle electronic parts with care** and wear personal protective equipment when dismantling them.



**4. Advocate for the environmentally sound management** of e-waste.



**5. Take the E-waste challenge MOOC:**  
<http://learning.climate-kic.org/courses/e-waste-mooc>