
Product Stewardship at Roche

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About Roche

- **Founded 1896** Basel, Switzerland (123 years)
- **Medicines** and **diagnostics** help **millions of patients** worldwide
 - A leader in personalized, targeted treatments (“**personalized health care**”)
 - World’s **#1 biotech** company (17 biopharmaceuticals on market)
 - Global leader in **cancer treatments** (50+ years)
 - Leading provider of *in vitro* **diagnostics**
- Committed investor in **innovation** (R&D spend 9 Bn Swiss Francs annually)
- Extraordinary workplace (**94,000+ employees**, 100+ countries, employer of choice)
- A **sustainable company** (recognized as sustainability leader in our industry)



Group Environmental Goals 2015-2020/2025

Sustainability is part of Roche's DNA

 Energy	 Climate	 Water	 Waste
<ul style="list-style-type: none"> Reduce energy consumption per employee by 15% (2025) Reverse trend in business flights Share of sustainable energy in total energy consumption of 20% 	<ul style="list-style-type: none"> Reduce halogenated hydrocarbons (K6) by 20% (2020) ² Reduce CO₂ emission per employee by 15% (2025) 	<ul style="list-style-type: none"> Reduce water consumption per employee by 10% 	<ul style="list-style-type: none"> Reduce general waste per employee by 10%
Reduce eco-balance points per employee by 10% 			

Selected achievements:

- **Eco-balance points** per employee
2014-2018: **-23%**
- **CO2 emissions** per employee 2003-2018: **-62%**
- **10x** DJSI industry group leader

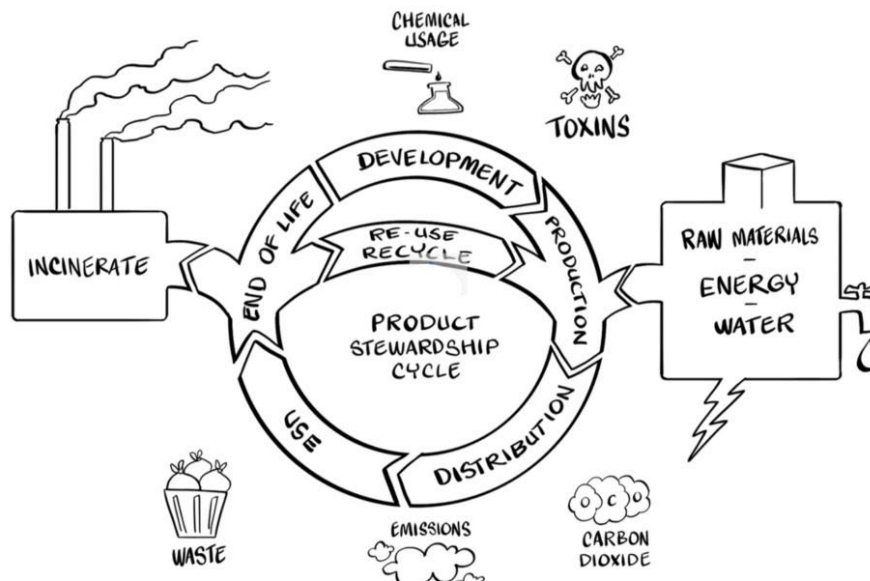


Stop use of **Substances of Very High Concern (SVHCs)**
within 10 years of being put on the EU candidate list (where technically feasible)

Product Stewardship

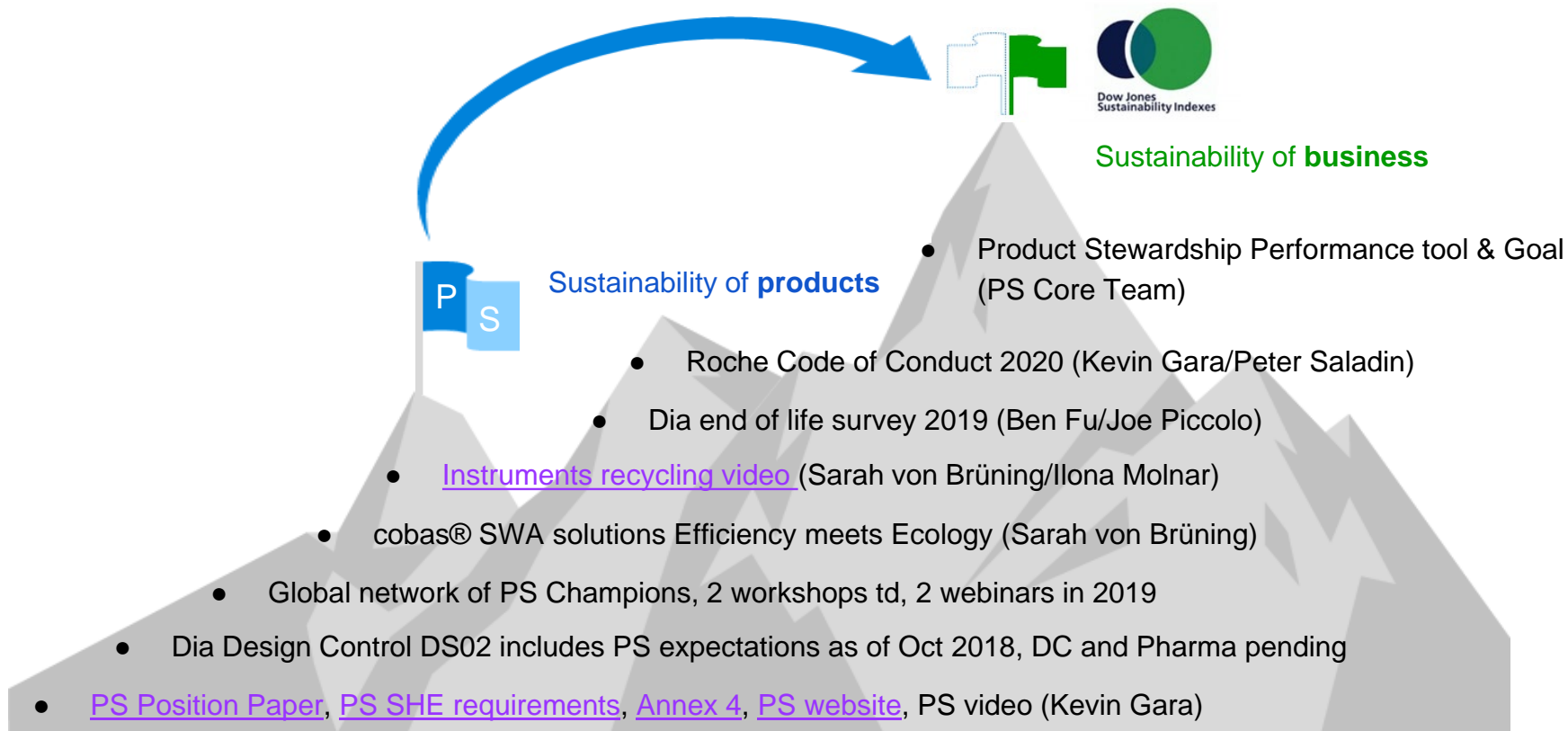
Embedding stewardship & sustainability into our products

A Safety, Health and Environmental (SHE) management strategy, guided by the principle that in **all stages of the life-cycle of a product** (“from cradle-to-cradle”), **all involved stakeholders take responsibility for minimizing the negative impacts** on people and the environment.



[Video: What is Product Stewardship?](#)

Establishing Product Stewardship (PS) at Roche



5 expectations of the business

Integrate SHE in Product Design

Reduce Toxicity

Minimize Energy & Resources
Consumption

Manage and Communicate SHE
Risks

Provide Guidance on End-of-Life
Issues

“GenPack” innovative packaging



GenPack innovation: 1 box with 10 vials and 1 package insert replaces 10 boxes, 10 vials and 10 package inserts.



Awards...
2016 Innovation ‘Ah Ha’
2019 ECOmpetition



GenPack multivial packaging configuration

Sustainability through customer-driven innovation

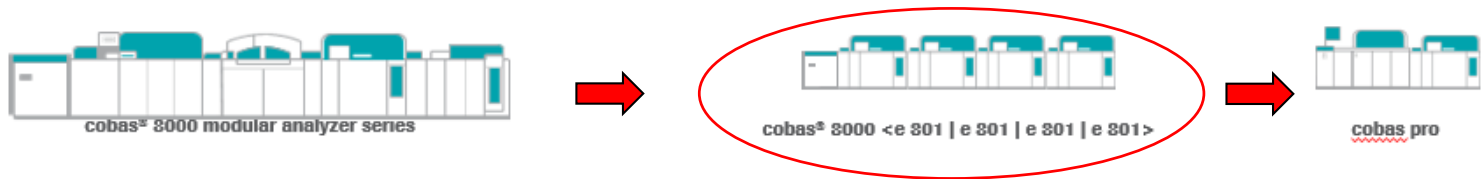
- Reduction of packaging material waste: **200 t/year** (4.4 M cartons)
- Elimination of more than **50 shipments per year** (less fuel, carbon dioxide emissions)
- **Less cold chain** storage volume needed (less electricity, carbon dioxide emissions)
- **Reduced handling time** (efficiency for customers)



High capacity on small footprint

Less waste, higher capacity

Miniaturization*



cobas® SWA solutions



Experienced SWA project team **set goals** to **increase throughput** and consolidation / in the **same Footprint** as the previous instrument (more test parameters per instrument)



Focus on **reagent carrier and disposables**; smaller sample pipetting volumes = smaller reagent volumes = more tests per reagent carrier; less reagent packs and plastic



Ultra Sonic mixing , smaller reaction cells and higher throughput capacities= **reduced amount of water** for rinsing / test; **less water consumption per test**



Reagent innovation - cobas® SWA¹ solutions



Roche

Up to
136,000

tons less
CO₂
emission ^{*1}

^{*1} 2017-2027



Our customer

Up to
78%

less solid waste
per result ^{*2}

^{*2} achieved with e pack green
launched 2016



Up to
44%

less sample
volume
per result ^{*3}

^{*3} achieved with e 801 module
launched 2016



Up to
24%

less
water
per result ^{*4}

^{*4} achieved with
c702 module
launched 2010



Patient education: product end-of-life

Responsible management of sharps



SafeNeedleDisposal.org is a project
of NeedyMeds, with support from:

AstraZeneca • BD • Biogen • Dexcom
Eli Lilly and Company
Novo Nordisk A/S • Perrigo
Roche • Sanofi US

<http://www.safeneedledisposal.org/>

Doing now what patients need next

Top-selling diagnostics and medicines 2018

Top-selling product portfolios in 2018 (CHF millions)



4,242 +11%
cobas
Immunodiagnostics



1,841 +7%
cobas
Clinical chemistry



853 +10%
Ventana
Advanced staining



663 +4%
cobas
Virology



1,980 +2%
Accu-Chek
Diabetes Care

Key growth-drivers in 2018 (CHF millions)



6,982 +1%
Herceptin
Oncology



6,849 +3%
Avastin
Oncology



2,773 +27%
Perjeta
Oncology



2,353 +172%
Ocrevus
Neuroscience



2,160 +12%
Actemra/RoActemra
Immunology



1,912 +11%
Xolair
Immunology



1,031 +19%
Esbriet
Immunology



979 +8%
Kadcyla
Oncology



772 +59%
Tecentriq
Oncology



637 +76%
Alecensa
Oncology