

Your Drug Delivery Device Solutions Partner

- We develop & manufacture devices that truly improve patients' lives
- Over 60 patients use our devices every second
- Global Sales 2021: €430m
 Over 1.5 billion devices sold annually in 54 countries
- International footprint6 manufacturing plants in Europe and America
- Global workforce: over 2,700 people
 Strong patient-centric & quality culture
- Holistic product and services offering to customers
 From early concept innovation to large scale manufacturing,
 we support your combination product



Our holistic offering across major drug delivery routes

Products

Nemera proprietary drug delivery devices

Services

Contract Development & Manufacturing













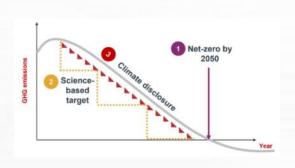
Capabilities

Insight Innovation

Process Engineering and Industrialization

Clinical and Commercial Manufacturing

We are moving towards a sustainable future



Net zero ambition

Long term strategic commitment



SBTI driven CO2 reduction roadmap

Key focus on carbon footprint reduction



Solid CSR / ESG holistic approach backed up by Ecovadis referential

Continuous improvement, involving all functions

- ✓ Company wide approach, relying on proven referentials, focusing on simple, concrete and measurable actions.
- Constant adaptation to the evolving consensus listening to all stakeholder requirements

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01

Markets trends and clarifications



User & market expectations

The market is expecting some substantial actions regarding sustainability in pharma ecosystem

There is not a one-size-fits-all solution to revolutionize the market towards a more planet friendly business

And by no mean these solutions should be business captive or proprietary owned



Key challenges we found during this journey

- "Buy in of all stakeholders" (Entire supply chain up to end user)
- Complex regulatory landscape (Each delivery device design has its specifics)
 - o Change control process and equivalency verification in supply chain
 - Patient Safety and verification of drug delivery efficacy
- Patient convenience and "change culture"
- Risk averse industry for different reasons
- No ECO Design standard and evaluation
 - Eco Design is just a "model"
 - o How to evaluate and "what is in for me"?



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02

Contributing to (more) sustainable devices



Nemera decision and key commitment to implement Eco-design

Start humble. Keep it simple.

- A dedicated program was initiated back in 2014
- Main focus: early development phases, where there is more freedom to play around « sustainability by design »
- It consists of a simple and basic process, to
 - o Raise team awareness when generating and selecting concepts
 - o Animate the natural interest of involved individuals to protect nature
 - o Enable teams to make decisions

"INNOVATE" to "green" means looking into the entire value chain

Few examples

- Reduction of materials weight, (transport) volume, fewer different materials
- Low impact material selection incl. recycled/recyclable materials, low energy materials, ...
- Use of standard modular components to create a complete product range
- Optimize production techniques
- Reduce impact at user stage, optimize lifecycle
- Optimize end of life reuse of product, recycling, ...





1:8 plastic per dose ratio

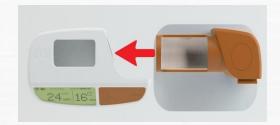
1:25 drug waste

1:9 overall packaging volume





12% savings in transportation and storage volumes



Disconnect
electronic module
from
the disposable

Smart design, optimizing mixed-waste while meeting user expectations, and cost effectiveness

Nice initiatives ... but is it really it ?

- Beyond few quick win solutions, moving into a truly integrated sustainable approach requires a comprehensive plan:
 - Neither the market nor end users are expecting to compromise
 on Health basics: safety and efficacy
 - Substantial changes have impact upstream (raw materials sourcing, ...) and/or downstream (regulatory pathway, user experience, ...)



In this tough,
complex
environment, we
have to have



A structured roadmap and regulatory assessment to move along the sustainability integration in our processes

An active collaboration across many players from the ecosystem, acting as one team

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03

How to we make drug delivery Devices more sustainable?

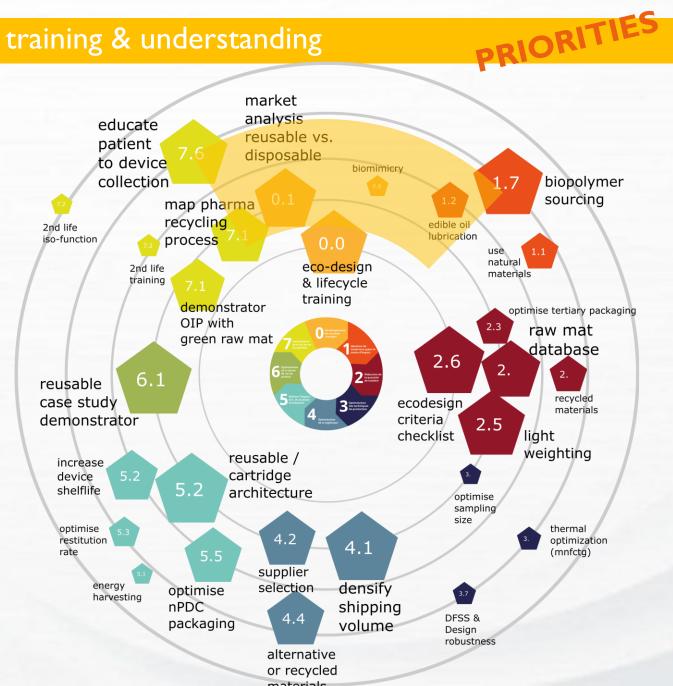


There is no recipe to build a comprehensive sustainability roadmap



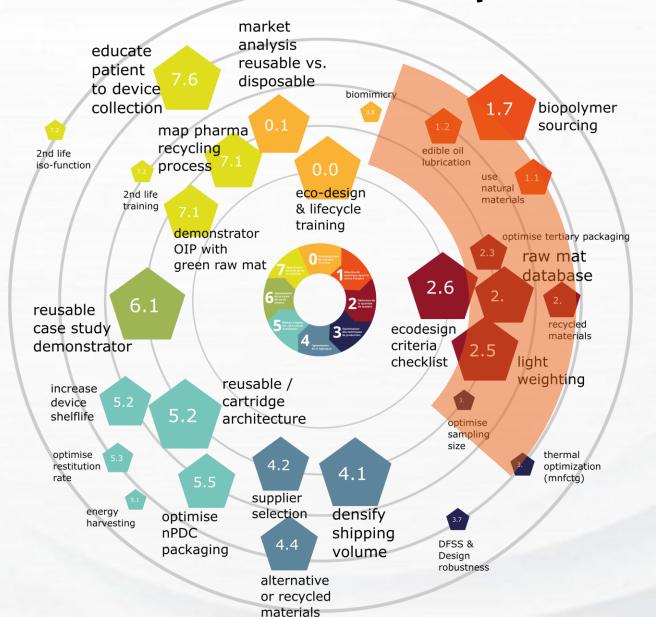
- 2022: Eco-design workshop together with "Pole Eco-Conception" and 18 multidisciplinary volunteers within development and central teams
- A framework was embedded into the Lifecycle framework of our activities
- Each pillars is following the principles below
 - Generate ideas
 - Assess scalability
 - Leverage market knowledge
 - Align with partners
 - Prioritize actions
 - Execution

Eco-Design culture, training & understanding



Materials

PRIORITIES

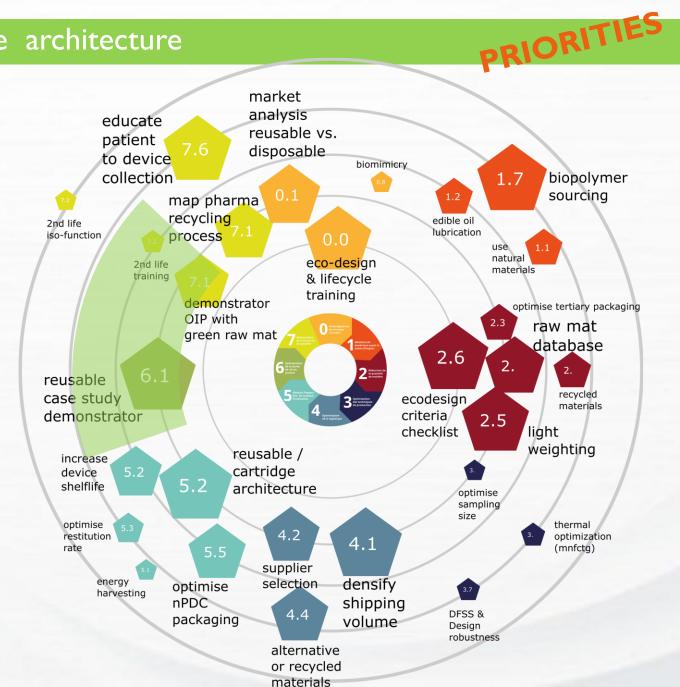


Design and Supply Chain Optimization



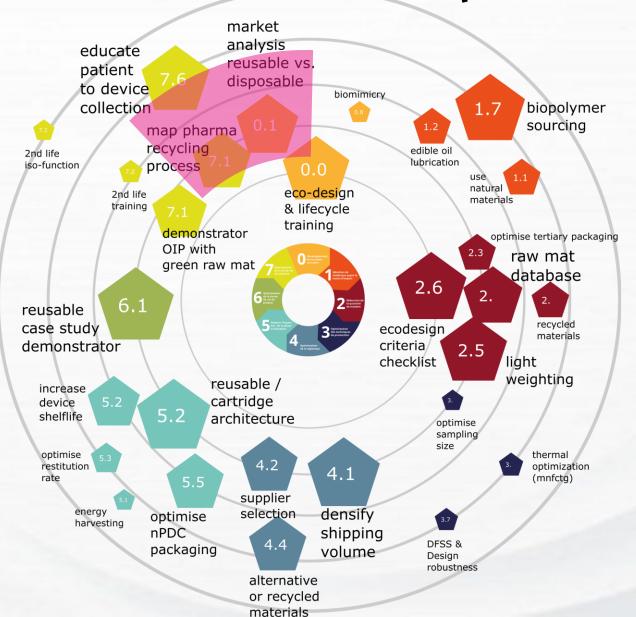


Reusable/disposable architecture



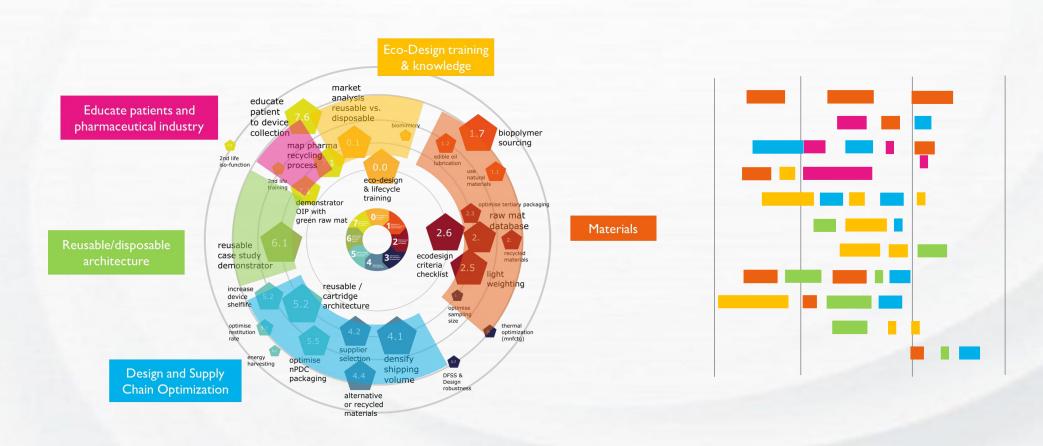
Educate patients and pharmaceutical industry





Strategic sustainability roadmap is our commitment

Along these 5 pillars, our sustainability roadmap has shown that the highest impact can be made by input materials and the ability to recycle components, or the entire device.



Whatever your plan is, risk assessment and mitigation remains a key for success

- Neither the market, the regulators nor end users are expecting to compromise on Health basics: safety and efficacy
- Substantial changes have impact upstream (raw materials sourcing, ...) and/or downstream (regulatory pathway, user experience, ...)



- Substantial Change control processes are required
- Ask and answer the right questions in your Risk assessment and involve multidisciplinary teams

Questions

Thank you!

we put patients First