

# Inhalation



A BREATH OF  
EXPERTISE



From the concept idea to large scale manufacturing, we're the utmost holistic partner to develop your inhalers. We help our customers succeed in the sprint to market with their formulations targeting the inhalation treatments. We also are an active contributor to the scientific community and we strive to consider in our research evolving trends in inhalation and in patient needs, as well as increasing interest to digital and sustainability related factors.



**We help our customers  
succeed in the sprint  
to market with their  
formulations targeting  
inhalation diseases.**

Nemera designs, develops and manufactures inhalers to treat respiratory diseases. We have successful track records with key Dry Powder Inhalers (DPI) and pressurized Metered Dose Inhalers (pMDI) on the market.

# Our inhalation products

**TAILOR-MADE  
FOR CUSTOMERS**



## Inhalers

At Nemera, we are your holistic partner to develop and manufacture patient-centric inhalers.

**RESEARCH**



## CUPIDO

We have been part of the EU-funded project **CUPIDO**, to find an innovative solution to deliver inhaled nanoparticles to the heart.

# Our services



**Integrated services  
from device selection to  
GMP manufacturing**



**Early-stage  
Innovation**



**Testing services  
for customer  
formulations**

# Inhalers

**From early-stage concept development to manufacturing we are truly a holistic partner in inhalation.**

With a long-standing know-how in inhalation delivery, we are today the leader in the Dry Powder Inhalers (DPIs) manufacturing business.



## **Our expertise covers:**

- Capsules DPI
- Blister multidose DPI
- Reservoir multidose DPI

A DPI can be preloaded with the medication(s) or loaded by a patient with capsules as the dose-holding system, prior to use. In DPIs, a patient's breathing capacity is critical in generating the desired therapeutic outcome as the dispersed powder needs to be broken into particles of the right size and be deposited appropriately into the lungs.

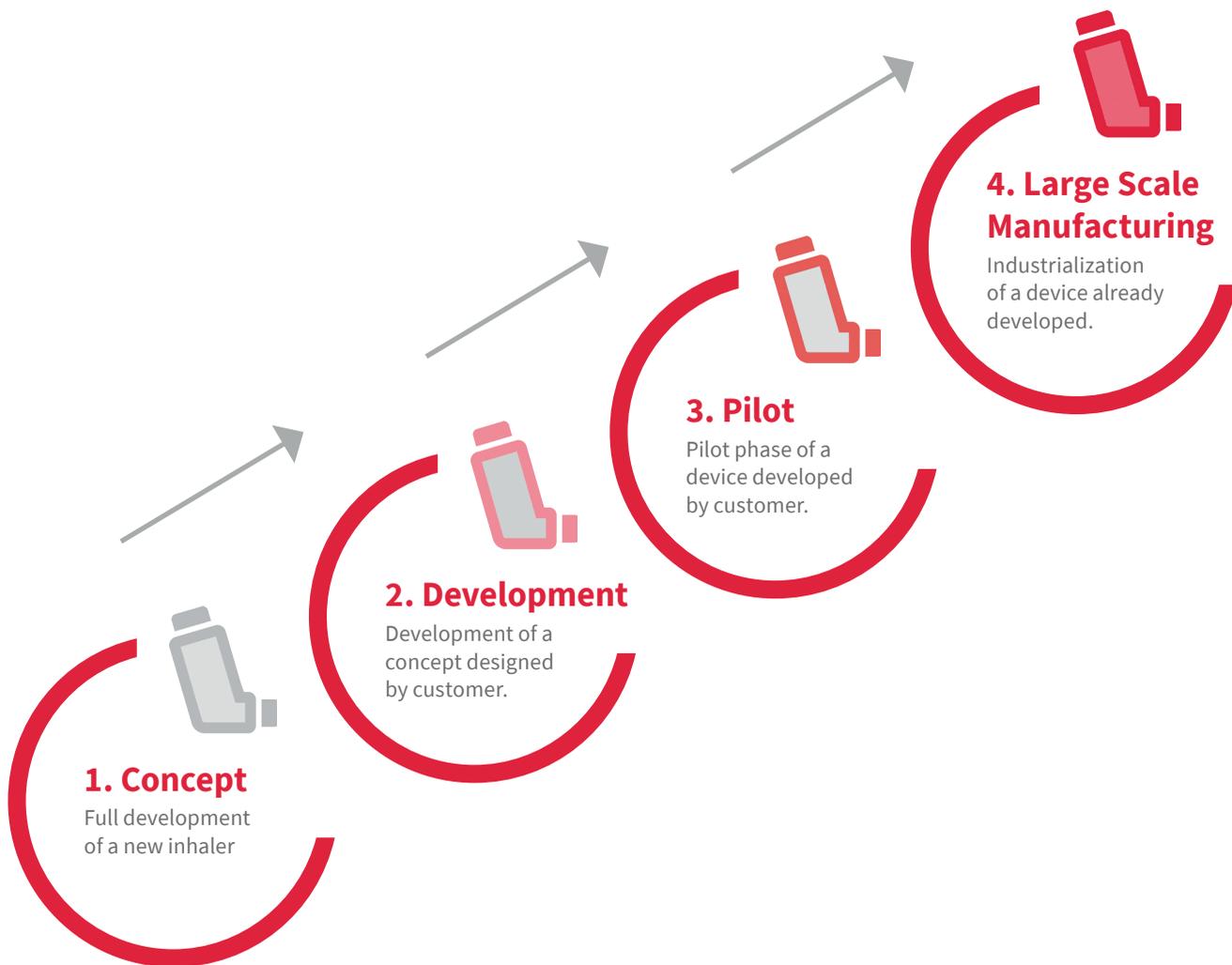
## **Our expertise in pMDIs covers:**

- Dose indicators
- Dose counters
- Actuators for a pMDIs

A pMDI is a device used to deliver medication into the lungs. It is composed of a pressurized canister of medication that fits into a mouthpiece. In most instances, a dose of medication is released into the lungs by pushing the canister into the mouthpiece. Breath-activated pMDIs release medication automatically when the patient inhales.

# From idea to reality, we take care of your inhaler.

Over 20 million patients rely everyday on inhalers manufactured by Nemera.





## Research activities: CUPIDO's case study

### Inhalable nanoparticles to the heart.

Started in 2017 and finished in 2021, the EU-funded project CUPIDO project proposes an innovative solution: the application of nanotechnologies to the cardiovascular field.



CUPIDO aims to develop inhalable nanoparticles that can deliver a therapy directly to the diseased heart.

Nemera's role in the consortium was to develop the inhaler that administers the nanoparticles to the lungs before being carried out to the heart.

**What we do today  
has a long-lasting  
impact on our future.  
And the future is  
full of unexplored  
opportunities and hope.**

# Our services

## INTEGRATED SERVICES

from device selection to GMP manufacturing

We have developed end-to-end services and expertise in inhaler development, device consulting, clinical trial support and contract manufacturing to complement our diverse portfolio of products to help you through every step of the journey.



## EARLY-STAGE INNOVATION

We are an active contributor to the scientific community and we strive to consider in our research evolving trends in inhalation and in patient needs, as well as increasing interest in digital and sustainability-related factors.

## TESTING SERVICES FOR CUSTOMER FORMULATIONS

Thanks to our high-end laboratory facilities we can test inhaler performances, as well as test methods development for our customers' needs.



Learn more about  
our services at:  
[nemera.net/our-services](https://nemera.net/our-services)

# Our broad offering

Offering a broad range of solutions in major delivery routes, we are the holistic development and manufacturing partner for your custom drug delivery device solution.

