UNICORE

A Common **Code Base** and **Toolkit** for Deployment of Applications to Secure and Reliable Virtual Execution Environments

What's UNICORE About?

THE PROBLEM

- ❗ DevOps era, the core of the new IT industry.
- ❗ Need for isolation and lightweight.
- ❗ Standard VMs can be heavy load.
- ❗ Containers are faster, but offer poor isolation.

UNIKERNELS' POTENTIAL

- Fast instantiation, destruction and migration time.
- Low memory footprint.
- High density.
- High performance.
- Reduced attack surface.

Why UNICORE Technology?

UNICORE will enable standard developers and DevOps engineers to create, maintain and deploy **unikernels** with ease

- UNICORE is developing **tools** to enable lightweight VMs development to be as easy as compiling an app for an existing OS.
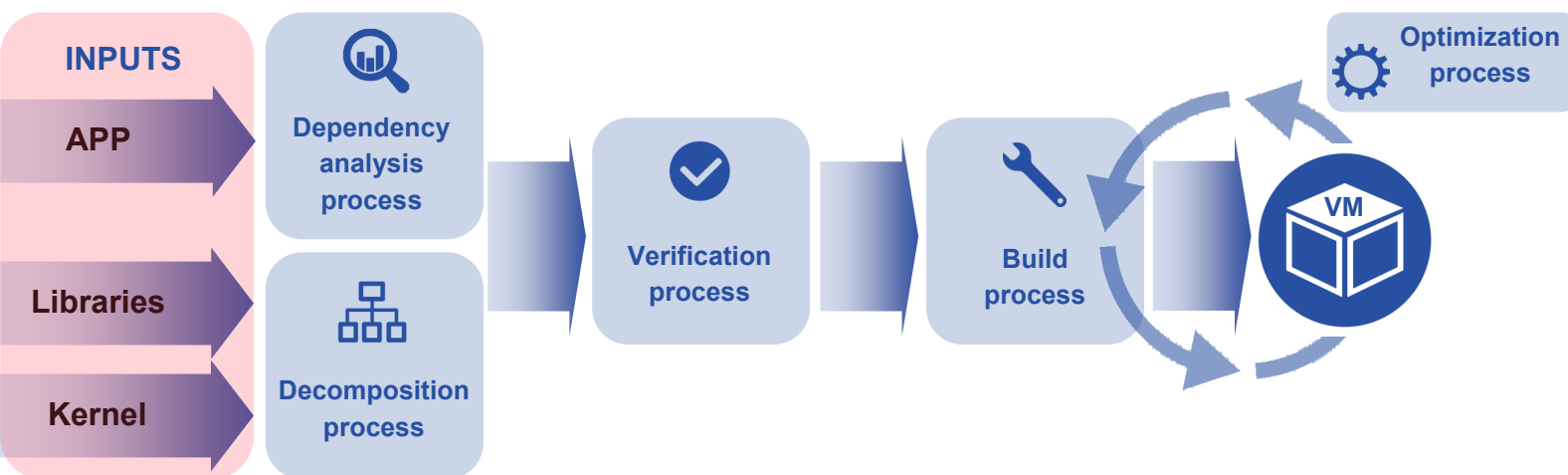
- It will release an **open-source toolchain** to enable secure and portable **unikernel development**.

- It will unleash the use of **next generation of cloud computing services and technologies**.

The UNICORE Toolkit

INPUTS

- APP
- Libraries
- Kernel

Dependency analysis process

Decomposition process

Verification process

Build process

Optimization process

VM