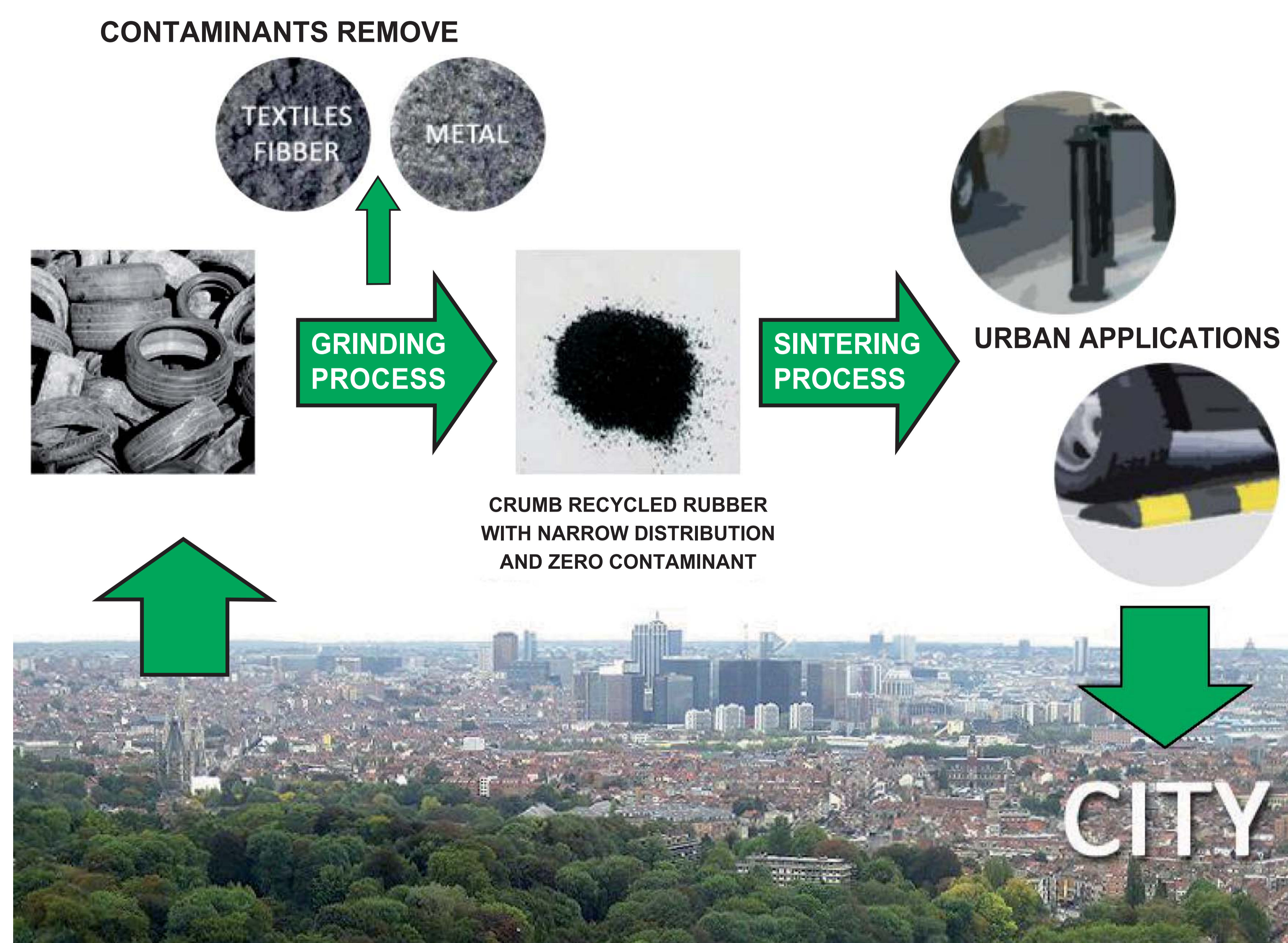


## Innovative used tyres recycling and rubber sintering process for eco-friendly urban equipment fabrication

The 27 countries of the EU had to dispose of 3.4 million tones of tyres in 2007 alone, according to the Tyre and Rubber Manufacturer's Association. Only 38% of those were recycled.

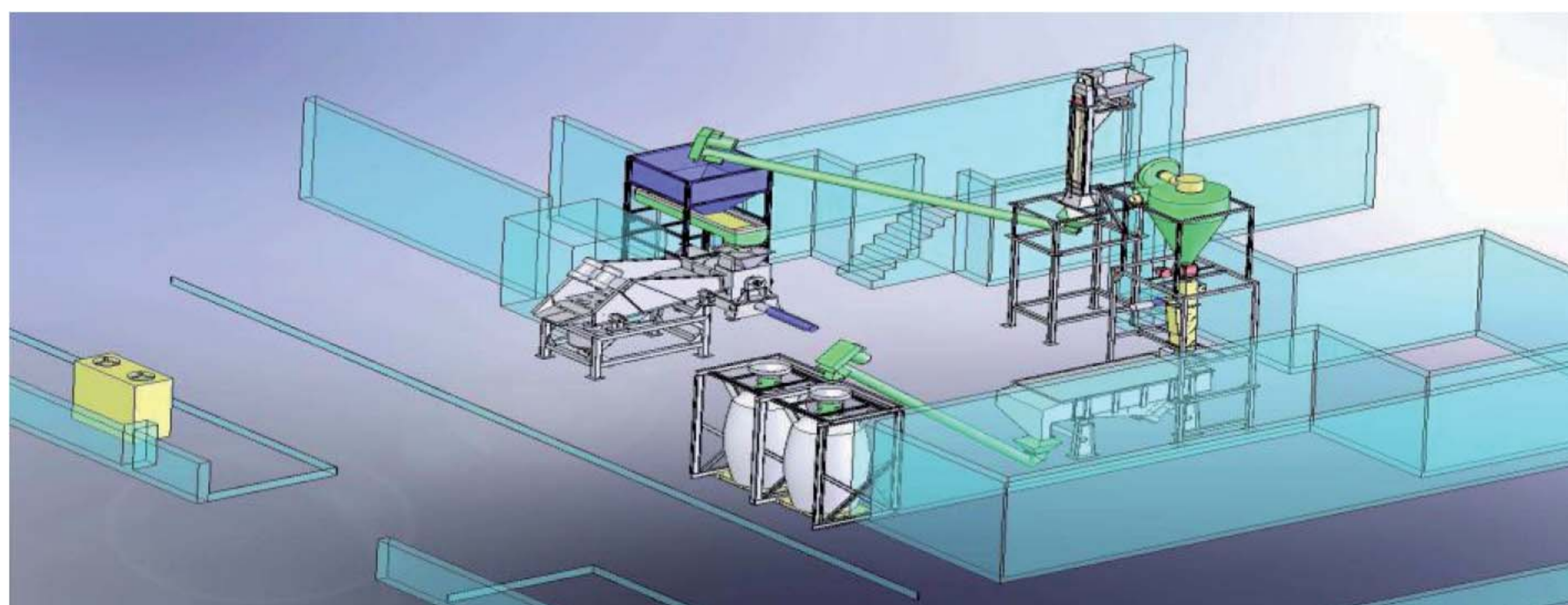


The main goal is to adapt the current industrial rubber recycling process to supply innovative recycled rubber urban furniture products manufactured by an innovative sintering process as an alternative to virgin rubber, wood or concrete products.

### OBJECTIVE: Grinding process optimization

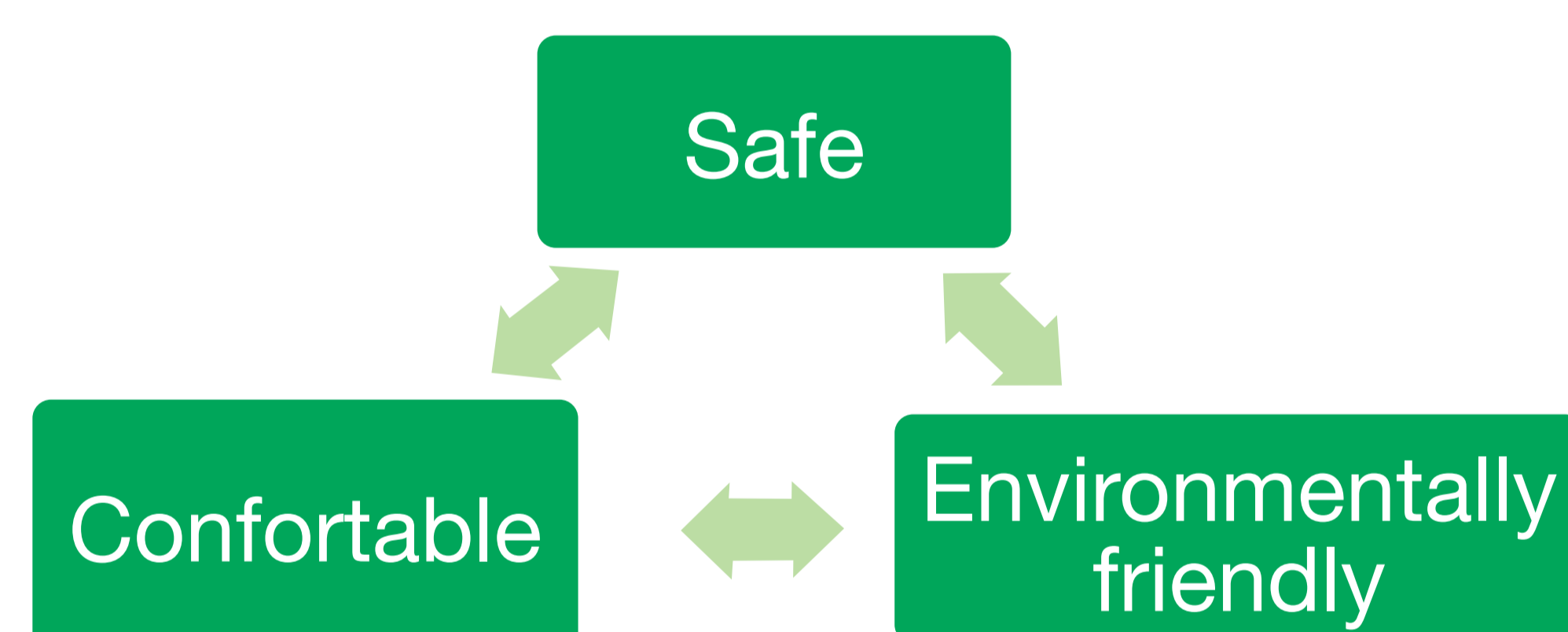
An adapted and improved grinding process:

- To obtain the targeted **particle morphology** and **zero contaminants**.
- To improve the morphologies synergy blends to obtain **recycled** rubber with enhanced properties.



### OBJECTIVE: Urban innovation

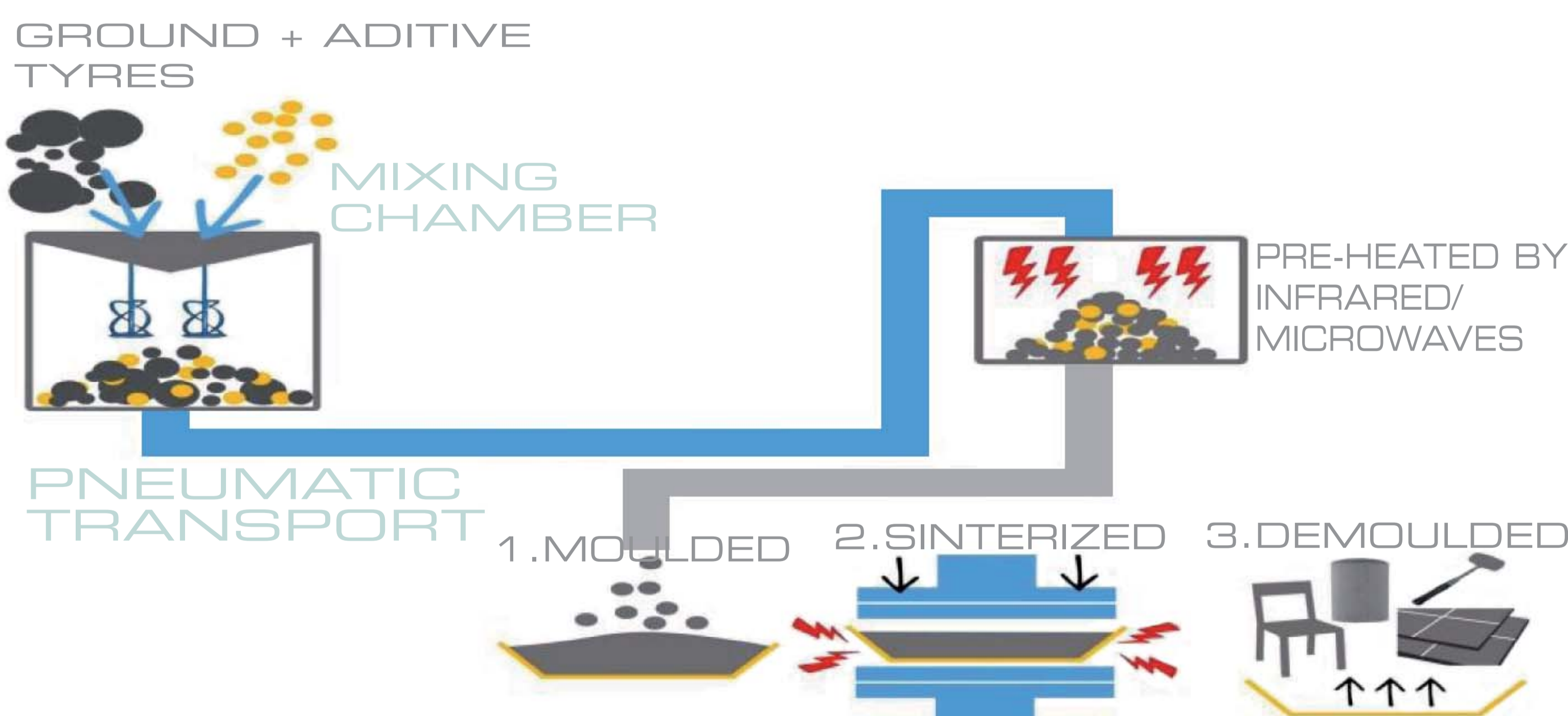
The selected urban innovation in representative of the advantages of an application made of recycled rubber.



**BOLLARD** Material elasticity would reduce the risk of an injury as a result of hits or accidents

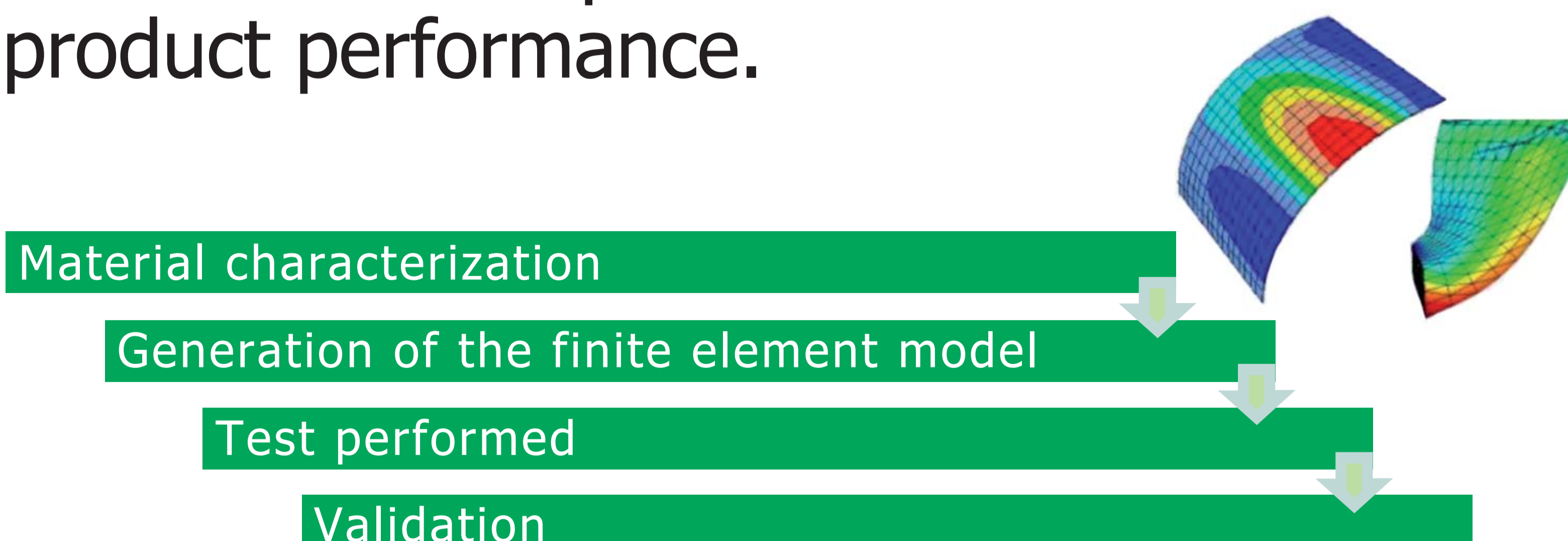
### OBJECTIVE: Sintering process optimization

An optimized sintering process including dosing chamber and pre-heated phases.



### OBJECTIVE: Predict and assess the final product performance

Aid the introduction of simulation programs into the design process of recycled products that enables to predict and assess the final product performance.



### OBJECTIVE: Eliminate user attitude barriers

An Ecolabel stamp for the developed products will eliminate user attitude barriers to the use of urban furniture made of recycled rubber.

