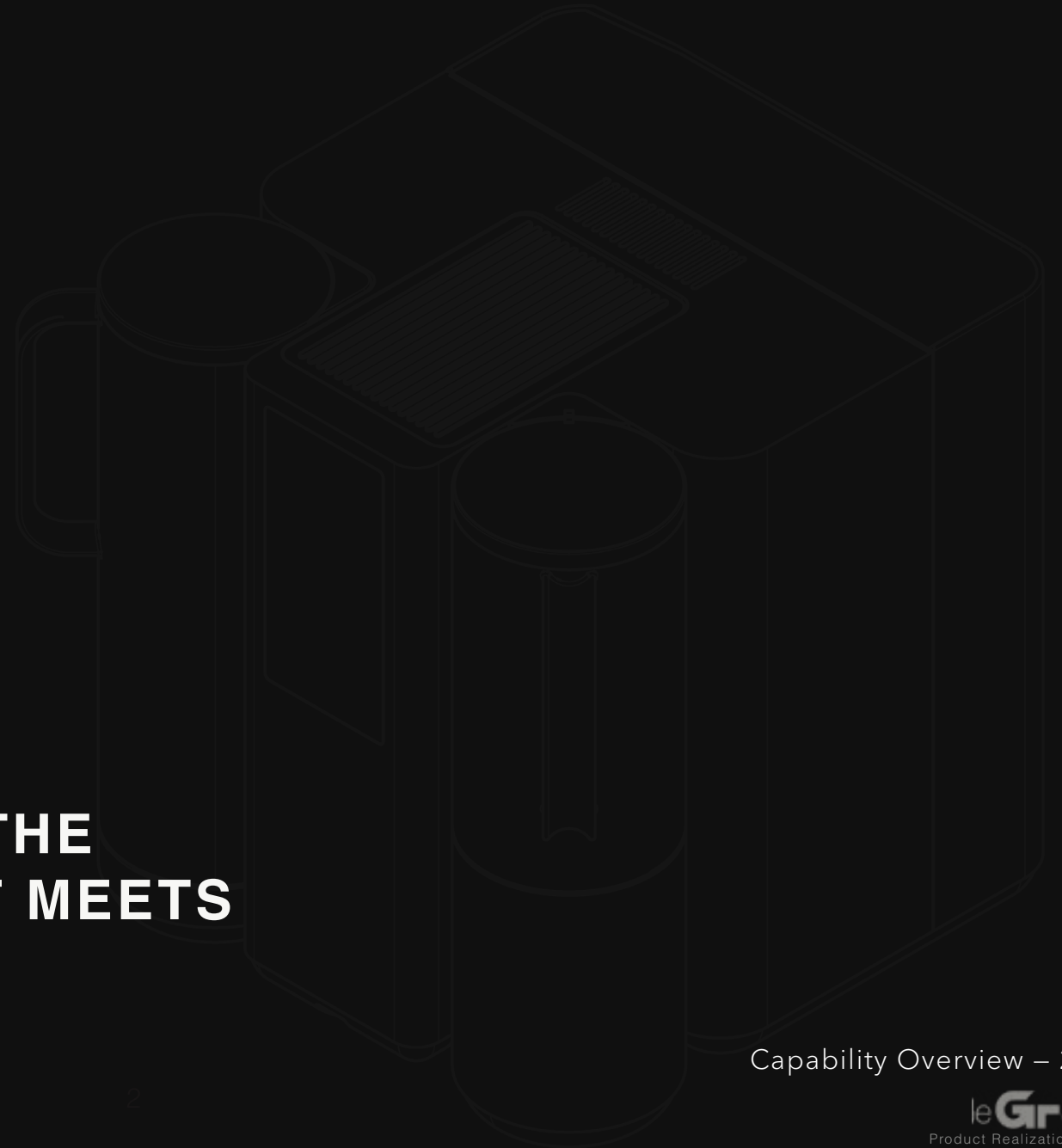




PRODUCT REALIZATION STUDIO
PRODUCT ARCHITECTURE · ENGINEERING · MANUFACTURING

**WE ASSUME CONTROL AT THE
MOMENT CREATIVE INTENT MEETS
MANUFACTURING REALITY.**

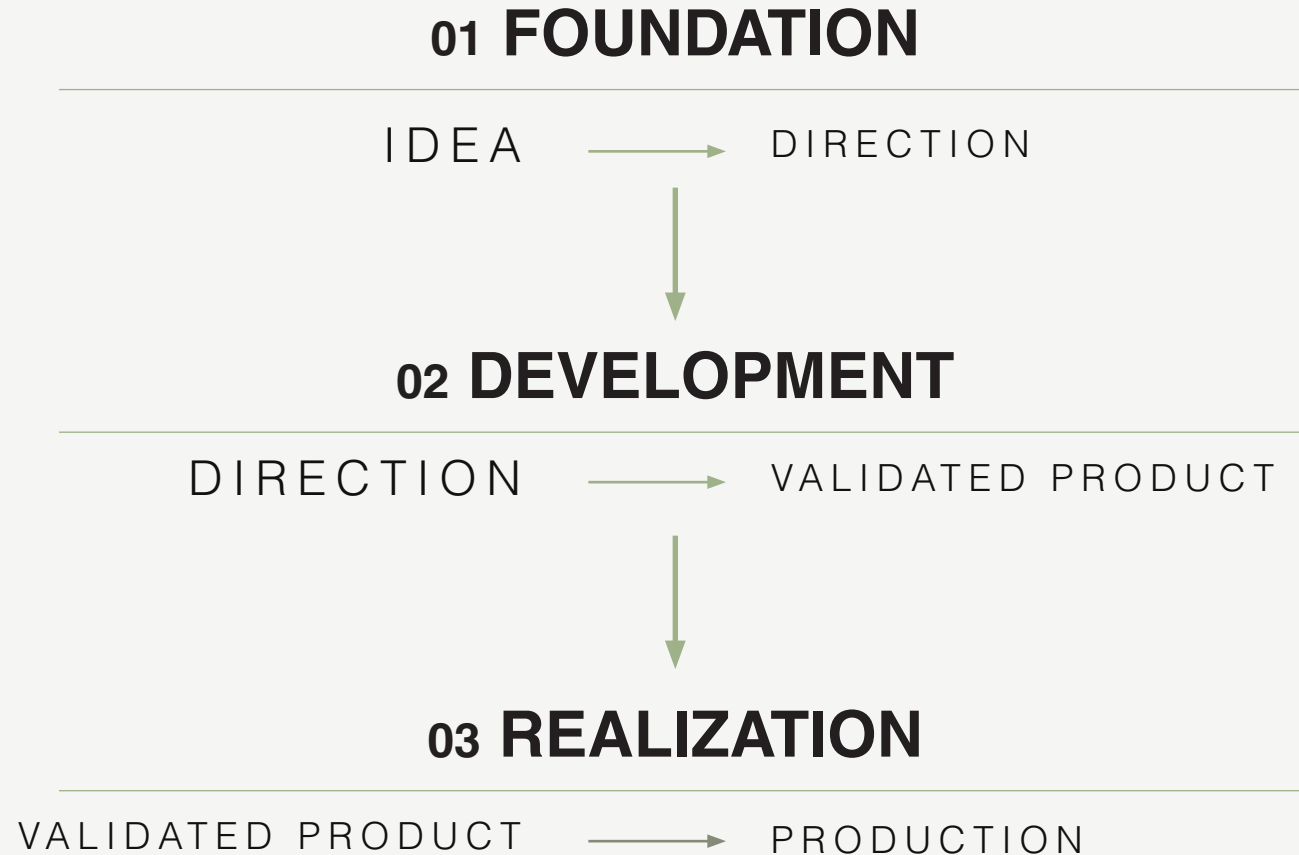


Capability Overview – 2026



**EVERY UNMANAGED HANDOFF IS A DECISION MADE BY
SOMEONE ELSE.**

A system reduced to its essentials: three gates that prevent every downstream failure.



PRODUCT & MANUFACTURING READINESS ASSESSMENT

A focused review of product, engineering and manufacturing readiness — with the critical risks, gaps and next step identified.



Assessment → Foundation → Development → Realization

— SPECIALIST CAPABILITIES

These capabilities extend the System — they are the mechanisms that make each phase executable.

ASIA MANUFACTURING ACCELERATOR

- China / SEA Product Development & Manufacturing
- Supplier Qualification
- Tooling Development
- Production Management

BRAND SYSTEMS

· Identity · Strategy · Packaging

- Identity Systems
- Global Guidelines
- Visual Assets & CMF

Product and brand systems designed to work together.

CHALLENGE

Integrate purification, heating, mineralization, dosing and servicing into one compact product architecture.

APPROACH

Developed product architecture, mechanical systems, CMF and manufacturing logic as one coordinated system.

RESULT

A unified product architecture prepared for DFM, tooling and production validation.

External Body / CMF Architecture

- Premium CMF (Color, Material, Finish)
- Surface precision and tolerance control
- Injection molding and post-treatment strategy
- Durability and compliance (heat, food-contact, electrical)
- Visual identity and tactile experience

User Interface / Interaction Layer

- Display and touch interface
- Feedback systems (light, sound, haptics)
- Physical components (spout, jars, handles)
- Accessibility and ergonomics
- Interaction logic and user flow

Structural Framework

- Internal skeleton and load-bearing geometry
- Plastic-metal hybrid integration
- Fastening and assembly logic
- Serviceability and tolerance stack
- Vibration and thermal isolation

Manufacturing & Lifecycle Architecture

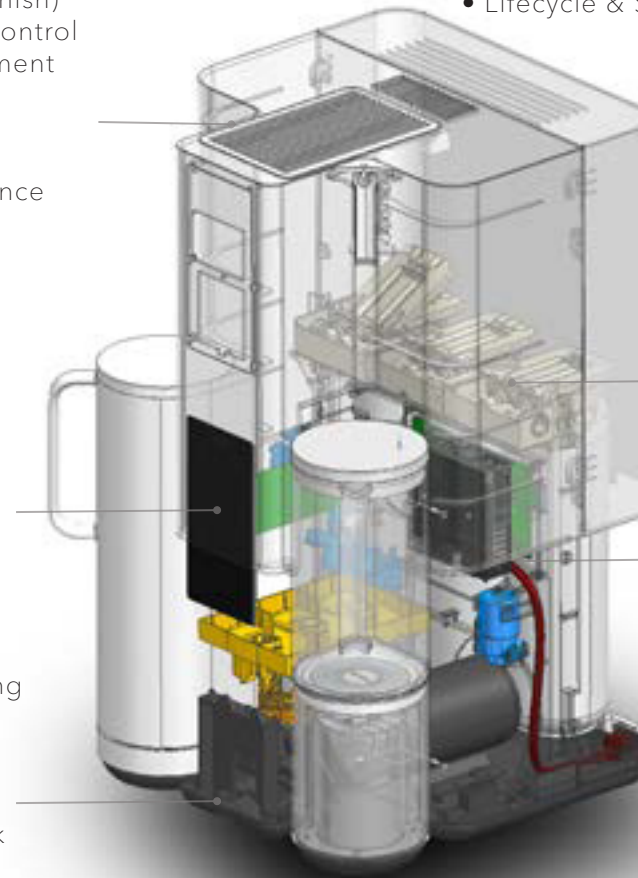
- Tooling & Mold Architecture
- Assembly & Jig Strategy
- Quality & Yield Engineering
- Supplier Integration & Scalability
- Lifecycle & Service Architecture

Hydraulic System

- RO filtration and micro-dispenser architecture
- Pump, valve, and flow control logic
- Tubing layout and pressure zones
- Heating and thermal exchange system
- Leak prevention and maintenance access

Electro-Mechanical / Hardware Assembly

- PCBA, micro-controller, and power management
- Sensors, transducers, and actuators
- Precision gears and micromotors
- Electromagnetic valves and boiler integration
- Compliance with EMI, safety, and efficiency standards



A product is never a single object – it is the convergence of systems, decisions, and intent.



ADVANCED HYDRATION PLATFORM

Integrated purification, heating, and dosing into one compact architecture – solving multi-system convergence.



ARCHITECTURAL VALET DOCK

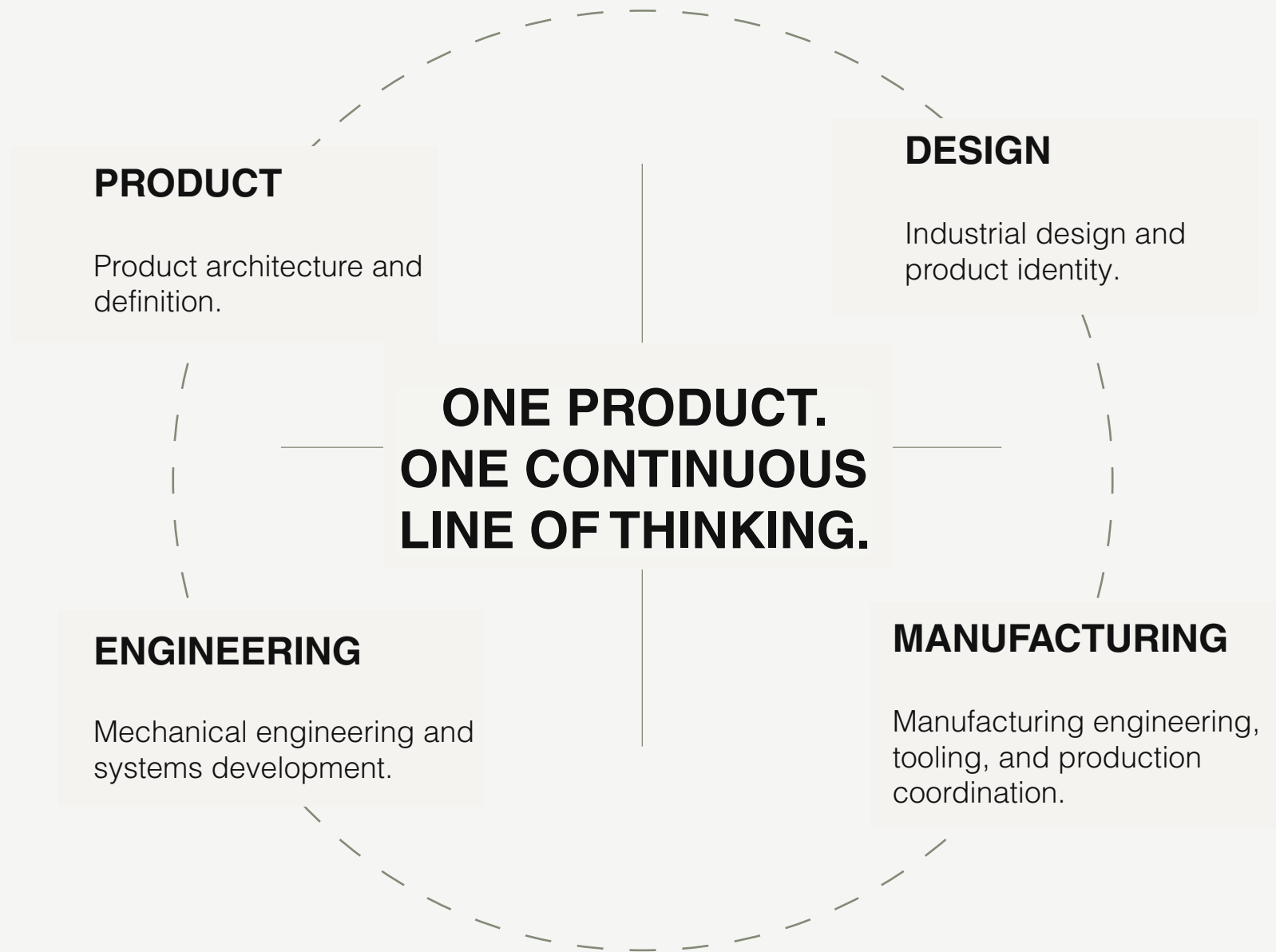
Unified mechanical, electrical, and user-interface logic for a modular docking system – solving spatial integration.



ENGINEERED FURNITURE ACOUSTIC SYSTEM

Merged acoustic performance with furniture manufacturing constraints – solving cross-material vibration control.

DIFFERENT PRODUCTS. ONE APPROACH.



— THE GATES

The smallest number of decision gates that still catches every failure mode.

Each phase in the Path advances a product through one of these gates.

01 **IDEA**

| Possibility

02 **DIRECTION**

| Definition

03 **VALIDATED PRODUCT**

| Evidence

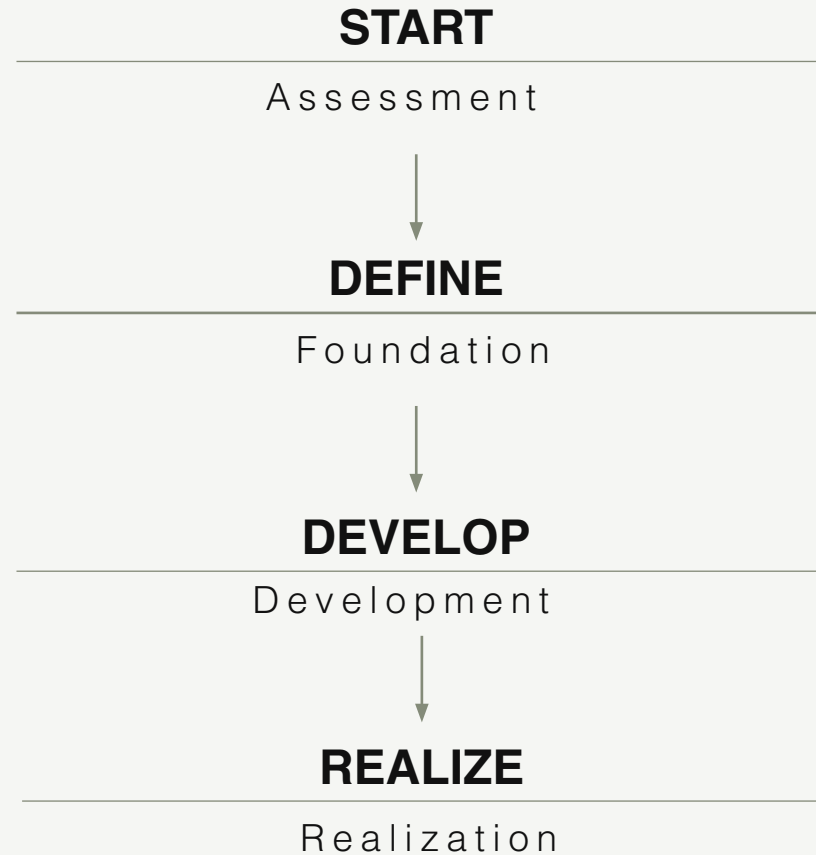
04 **PRODUCTION**

Repeatability

Defines the checkpoints that ensure every product decision passes through controlled validation.

— THE PATH

The commercial pathway that moves a product through the system with clarity, evidence, and repeatability.



Engagements are scoped according to product complexity, development stage, technical requirements, manufacturing maturity and required level of involvement.

BUILT AROUND THE PRODUCT'S REAL NEED

Engineering Clarity.
Designing Meaning.
Realizing Products.



Product Realization Studio

START WITH CLARITY.

Where the product is.
What is preventing progress.
What decisions need to be made.
Whether leGrok is the right partner.

PRODUCT & MANUFACTURING READINESS ASSESSMENT

The first step is not to build more.
It is to understand what should happen next.

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