NavAbility
Navigation software, simplified

How can we help?

NavAbility is simplifying mapping & localization software by fostering an open community, reducing barriers for industry, and always improving the technology.

The NavAbility Company helps diverse customers overcome their navigation AI challenges with our **software platform** and expert services.

We define **Navigation AI** as data fusion, calibration, localization, surveying, mapping, tracking, and perception from multi-sensor / prior data.

Innovations

EASE-OF-USE
- ❏ **NavAbilitySDKs** are ready to integrate
- ❏ Code **examples** to accelerate
- ❏ Core solver is **open-source, Caesar.jl**
- ❏ Flexible and **extensible**

DISTRIBUTED
- ❏ Data **persistence**
- ❏ **Anywhere** solve and retrieval
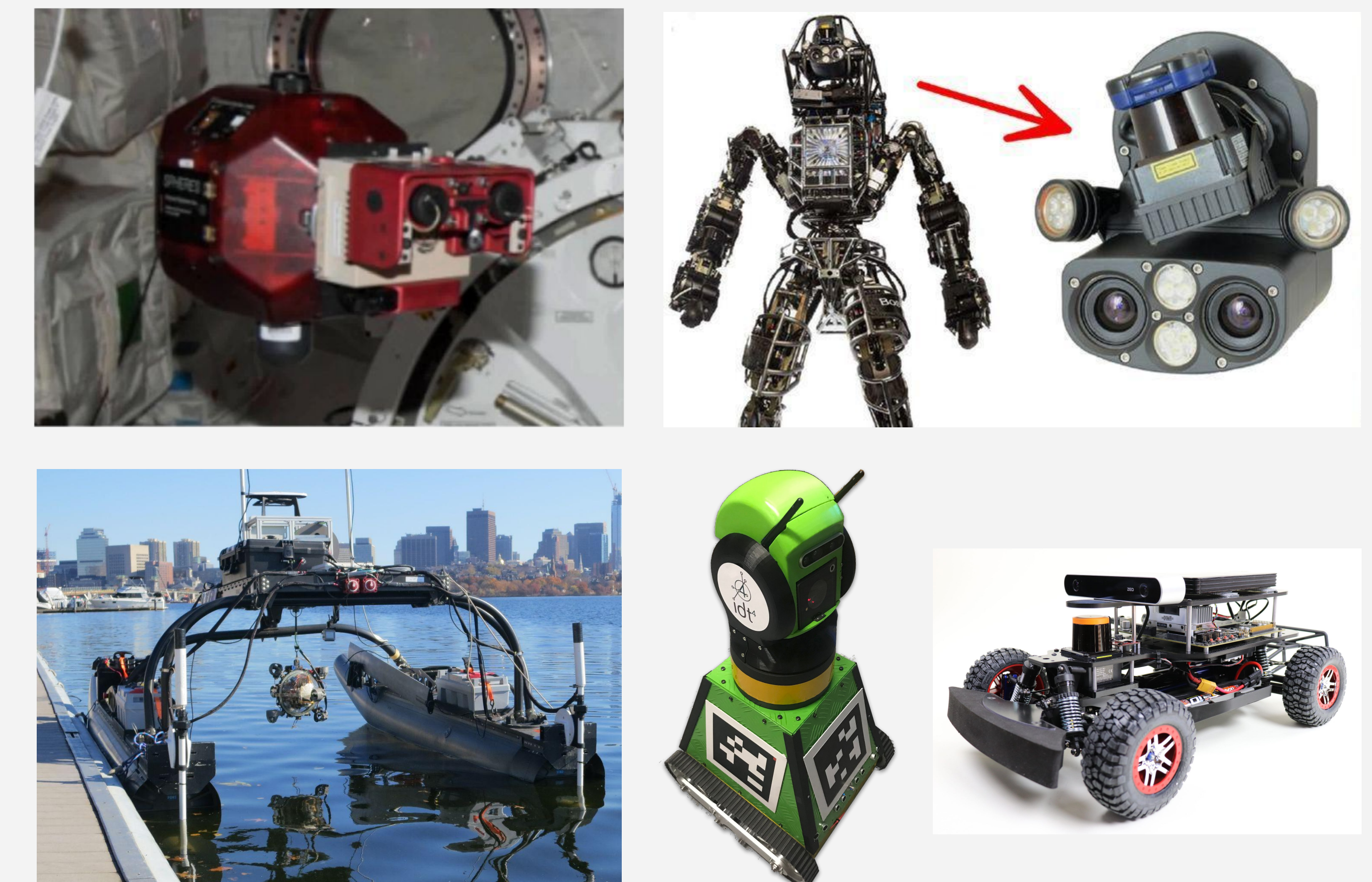- ❏ Designed for **small proof** to hyperscale

ROBUSTNESS
- ❏ **Non-Gaussian** Algorithms (MIT)
- ❏ Less statistical assumptions
- ❏ Community amplifies quality
- ❏ Open-source **transparency and access**

Application Examples

Terrestrial, Marine, Sub-sea, Aerial, Space

- ❏ https://www.navability.io/applications/
- ❏ https://juliarobotics.org/Caesar.jl/latest/examples/examples/
- ❏ https://juliarobotics.org/Caesar.jl/latest/refs/literature/

Value

Lower cost of ownership: Development, support, and consumption
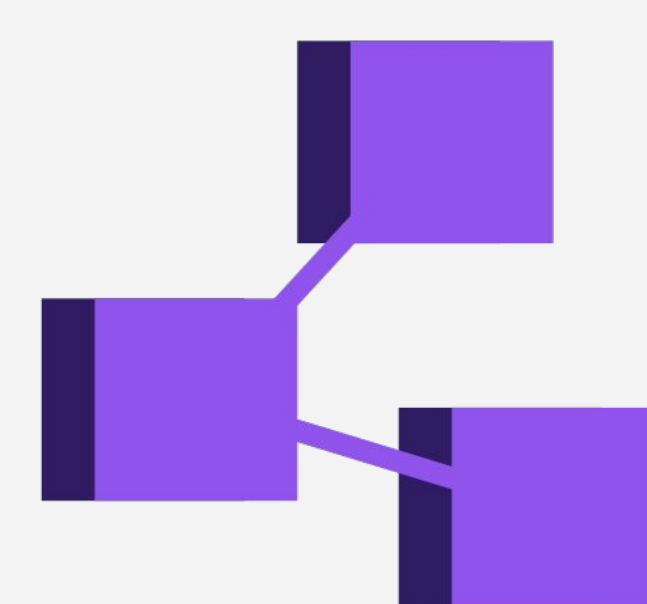
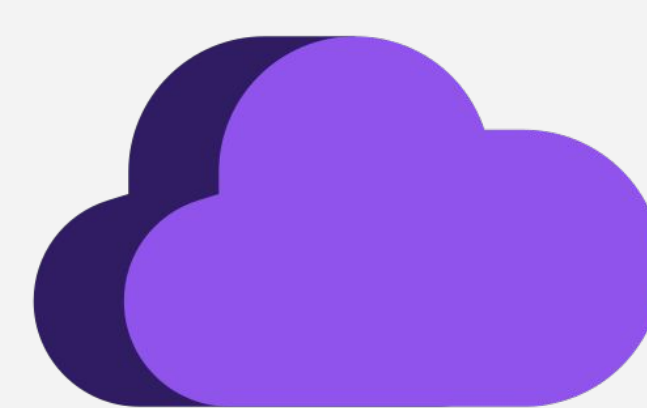**Faster time** to market: NavAbility Products

Reduced project risk: NavAbility Expertise

Products

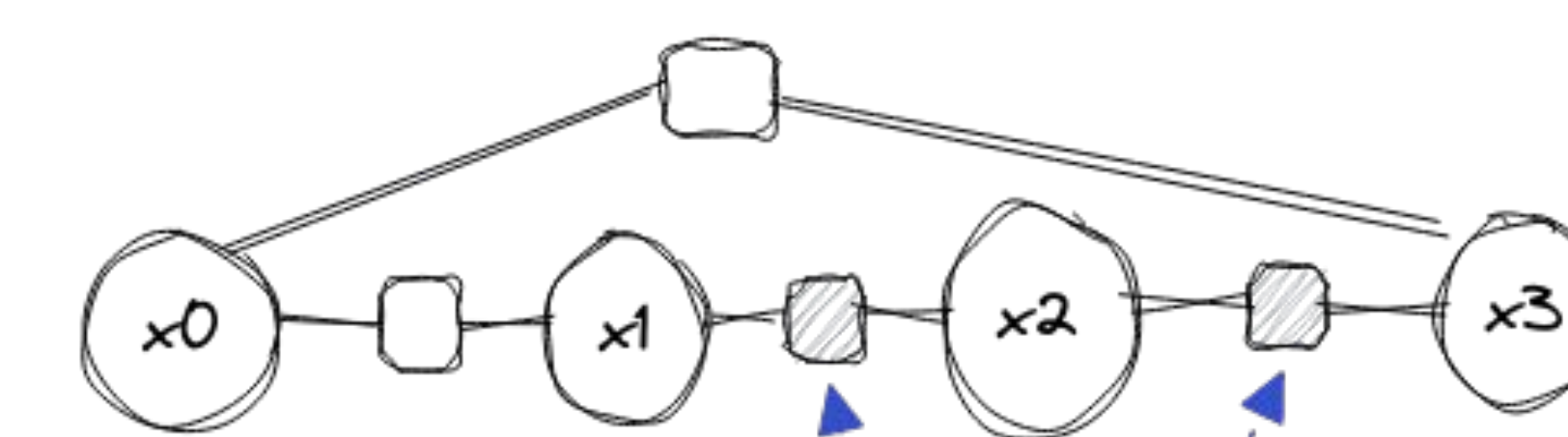**Open-source libraries**, Rapid prototyping, Always **free** to use

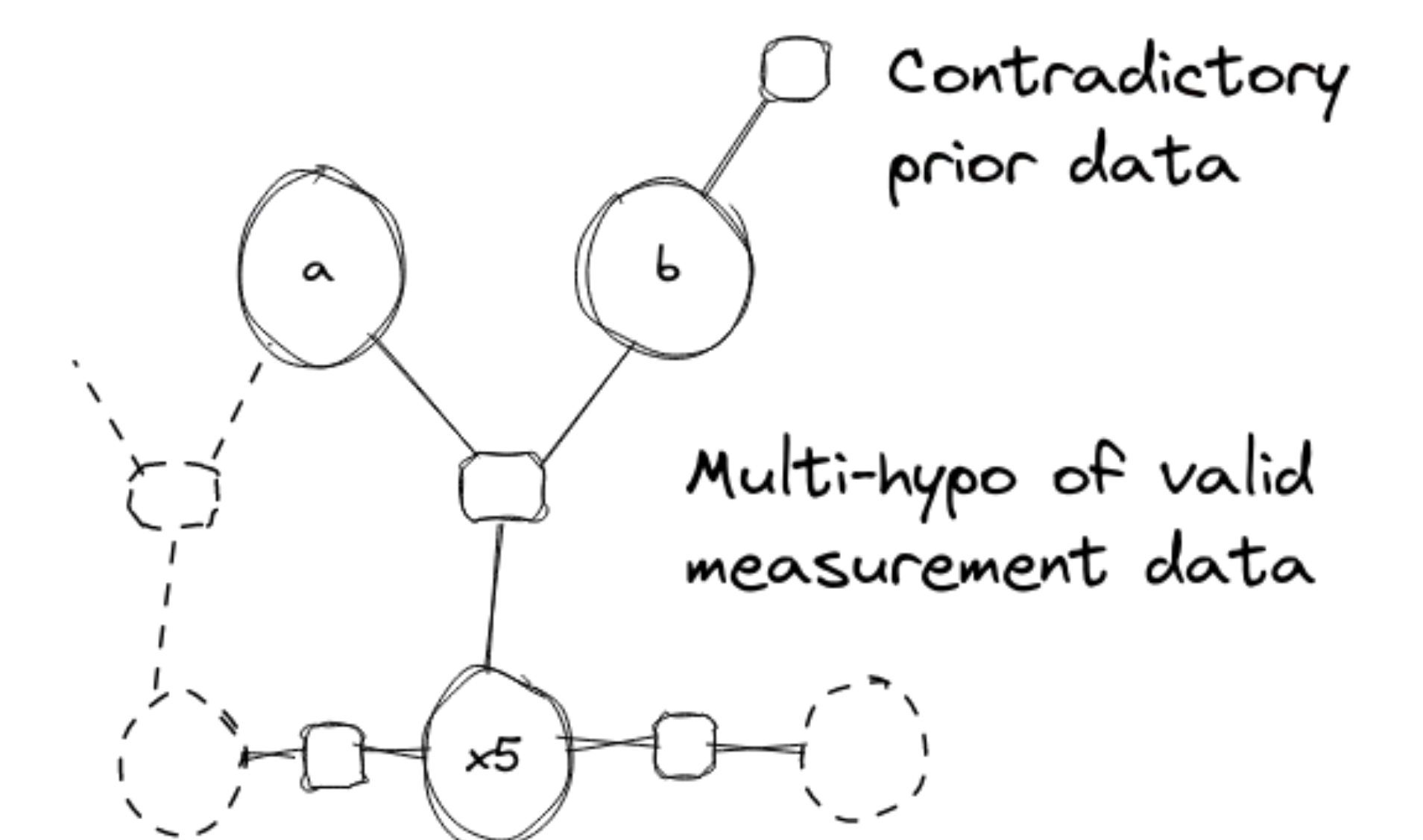**NavAbility Platform**
Cloud API & SDKs
Distributed, hybrid design

NavAbility **Expertise**
Ongoing Support / Fixes
Accelerated development

Try the Tutorials

Non-Gaussian Measurement data

Contradictory prior data

Multi-hypo of valid measurement data