



Tupaia

positioning solutions



Tupaia Ltd. Proprietary & Confidential



The Team

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Nadav Lavi, PhD
co-founder & CEO

Staff Researcher & EGM, GM
Engineering Manager, Alvarion

Ph.D. in EE at Tel-Aviv University
B.Sc. and M.Sc. in EE at the Technion



Kobi Scheim, PhD
co-founder & CTO

Staff Engineer, Samsung
Senior Researcher, GM
Senior Tech. Lead, Comsys

Ph.D. and B.Sc. in EE at
Tel-Aviv University



Zohar Zisapel (Late)
**co-founder &
Former Chairman**

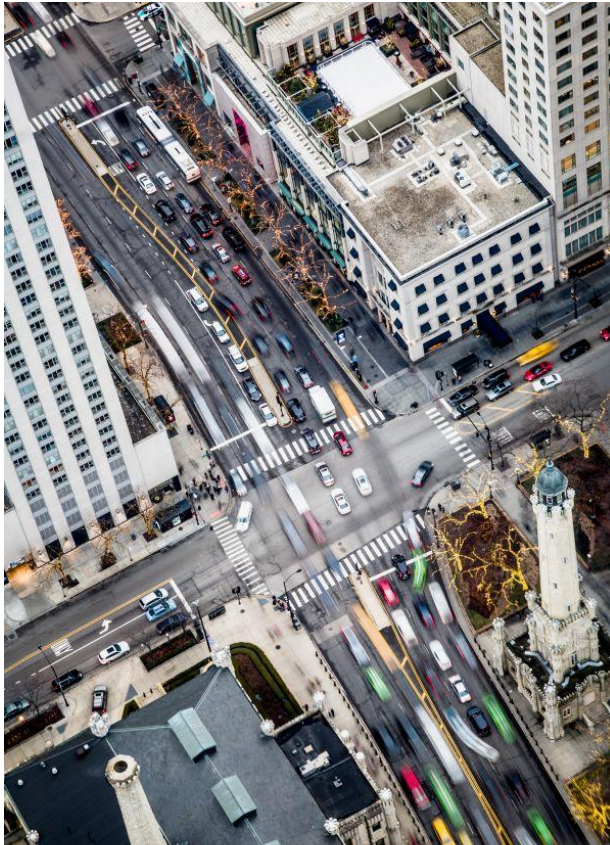
Founder of the RAD group.
Investor and entrepreneur:
Hailo, Innoviz, Argus, Adallom



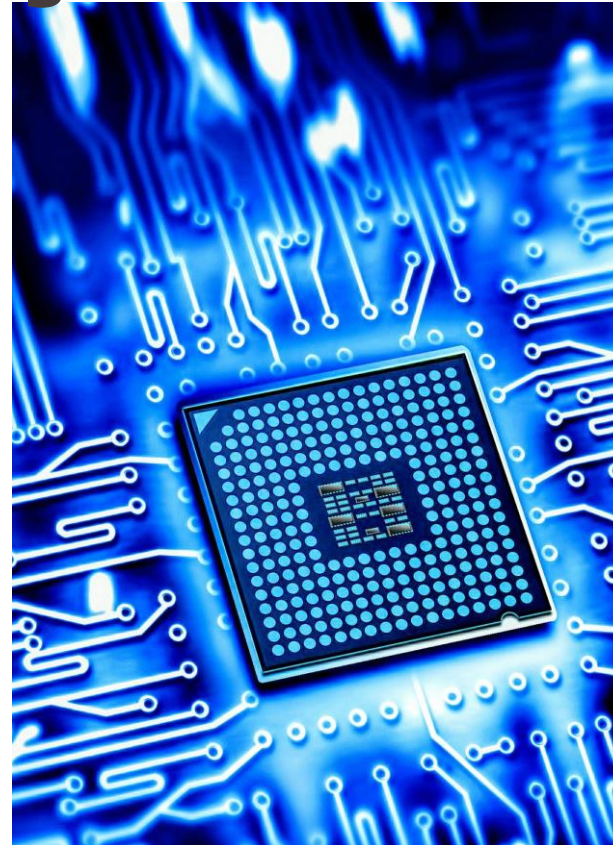
Tupaia's Mission

**Tupaia is disrupting the multi-billion dollars
GNSS augmentation market**

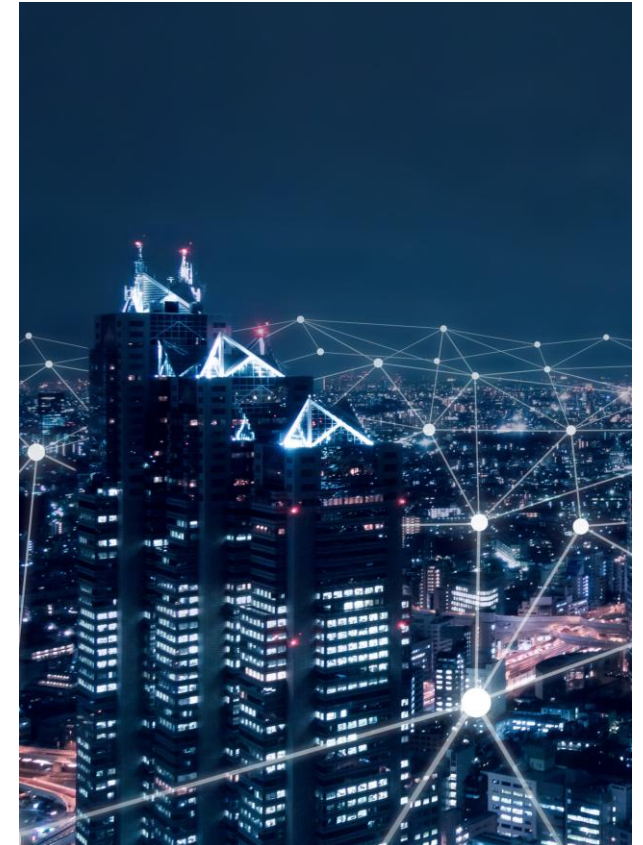
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Urban & Mobility Support



Any Device



Unique Cost Structure



Markets & Needs

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- GNSS technology is embedded in numerous devices/markets
- Precise, GNSS based, positioning enables new use-cases
- Tupaia unlocks the potential of precise positioning across multiple industries



Automotive

Lane level accuracy (<20cm)



Drones

Various needs
Mapping/Surveying (<5cm)
Autonomous flight (<10cm)



Micromobility (bikes/scooters)

Parking and tracking
Urban positioning (<1m)



Rail

Track level accuracy (<50cm)



Mobile

Various needs
Urban positioning (<1m)



IoT

Trackers and sensors
Enhance accuracy while keeping cost low



Robots

Decimeter accuracy



Construction

Machinery tracking (<10cm)
Surveys and inspection (<50cm)



Agriculture

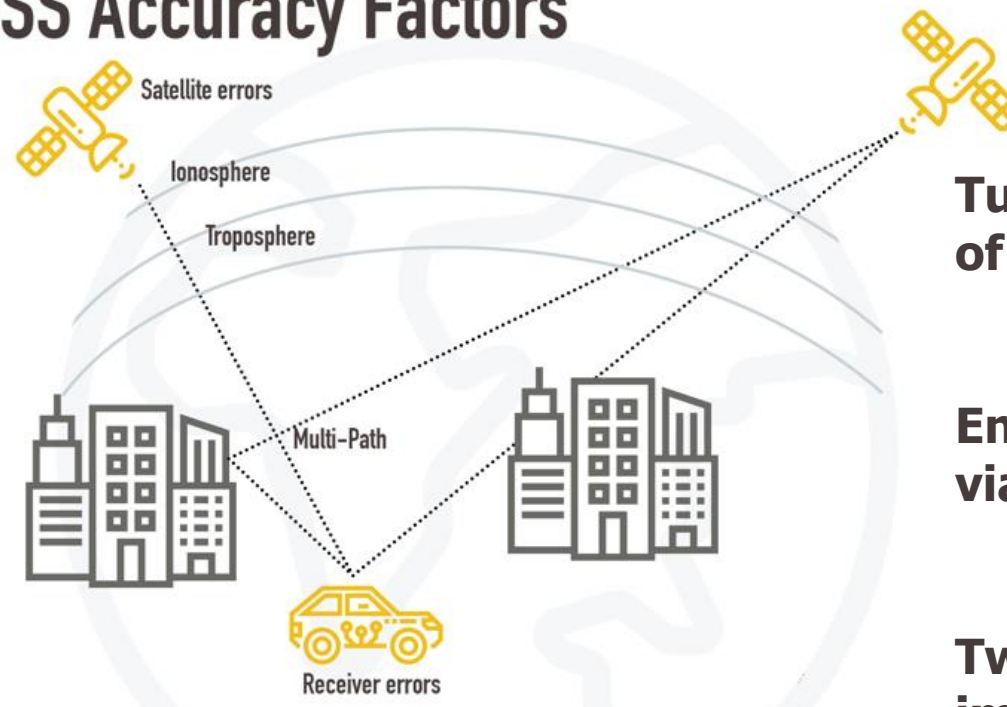
Smart agriculture (<10cm)



Complex Problem / Simple API

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GNSS Accuracy Factors



Tupaia overcomes the various source of errors in any environment

Enabling centimeter level positioning via simple API in the cloud

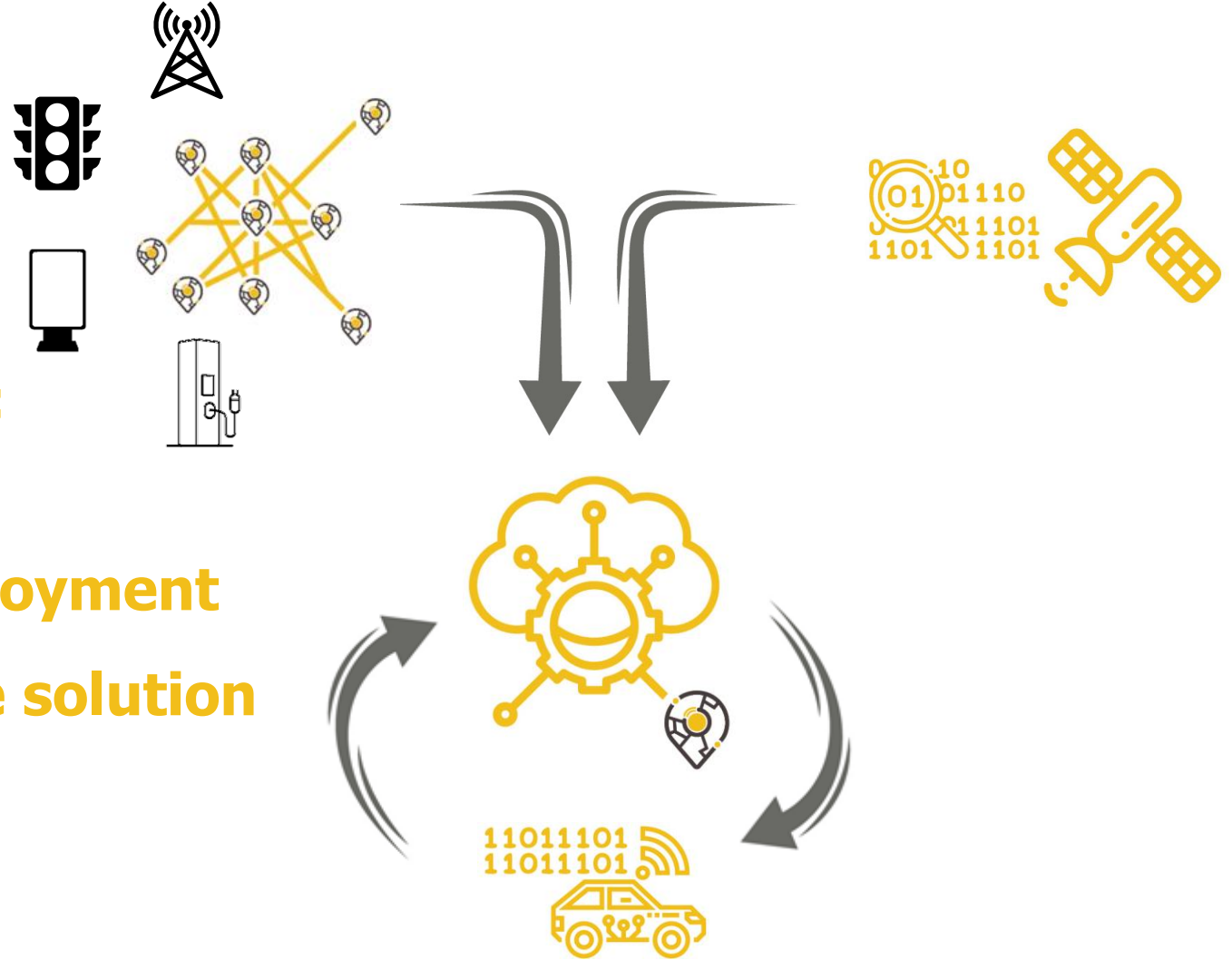
Two orders of magnitude improvement - from 10m to (<)10cm



A New Solution Paradigm

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- ✓ **Software solution**
- ✓ **Hardware agnostic**
- ✓ **Cloud empowered**
- ✓ **Cost-effective deployment**
- ✓ **Optimal per-device solution**





Tupaia – Videos (links)

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Tupaia – Solution Overview



Tupaia – Urban Performance

Android Precise Positioning Demo

Integral Navigation vs. Tupaia



Tupaia – Android Performance



Current Customers

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**Completed a 1 year 5G pilot with an Israeli cellular operator.
Working with one of the largest US Telcos.
Engaged with additional operators.**



Working with leading IoT chip and module makers.



Collaborating with a construction company for the utilization of precise positioning in Android devices for efficient project management.



**Tests/pilots with micromobility service providers.
Tracking and parking via embedded GNSS or users' smartphones.**



Pilots and POCs with a supplier in the drones market.



Collaboration with CityZone (Tel-Aviv municipality accelerator).

Thank You!



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www.tupaia-pos.com

info@tupaia-pos.com