

Locate
everything,
anywhere,
anytime



Deeyook Location as a Service

Deeyook delivers a touchless indoor/outdoor asset tracking solution that provides precise location in real-time.

As a company, Deeyook provides locational support that guarantees utmost precision in supply chain manufacturing and operational performance.



Touchless Asset Tracking

Addresses to the Biggest Operational Challenges

Lack of Visibility

Shipping, Yard, and Warehouse Management:

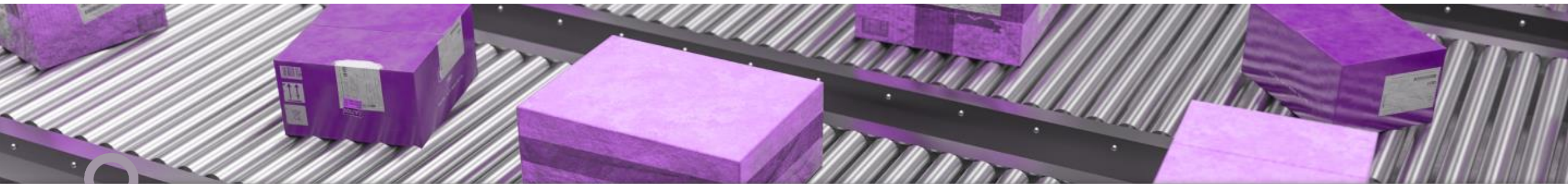
- Obtain the location of every crate, pallet box and load carrier
- Increase order fulfillment accuracy and speed
- Increase trailer velocity
- Optimize shipment efficiency and cost
- Manage risks such as theft, damage and delays
- Instantaneous inventory hyper-localization

Supply Chain Disruption

Get a real-time view into location of your inventory, identify logjams, and take action to ease delivery problems and fulfill orders faster.

Labor Shortages

Achieve sustainable growth and build organizational resilience by automating operations and minimizing reliance on labor.



Deeyook Touchless Tracking

Deeyook automates asset locationing. Why scan when you can Deeyook?!



UBIQUITY

Tracking everywhere
indoors and outdoors



SCALABILITY

Tracking everywhere using
existing infrastructure



PRECISION

Locating assets within a
precision of 10cm/4in



Yard Management USE-CASE

Optimize shipment efficiency & costs with real-time trailer & yard visibility

Real-time Trailer Visibility

- Identify inventory to be unloaded
- Locate empty trailers available to use
- Reduce/eliminate spotters doing manual yard checks

Optimize Shipment Efficiency and Costs

- Reduce gate congestion and demurrage/detention costs
- Optimize yard jockey usage
- Improve trailer velocity – reduce delays in visit life cycle

Safety

- Increase yard visibility
- Benefit employees through injury prevention
- Enable operations monitoring for safety and compliance



Photo by [Felix Fuchs](#) on [Unsplash](#)



Warehouse Management

USE-CASE

Optimize warehouse functionality and save time in daily operations

Scan-free / Clipboard-free

Maximize work hours and decrease long-term costs of manual asset scanning

Continuous and Real-time Location Intelligence

Increase order fulfillment accuracy and speed
For specialized deliveries and services

Asset Data

Monitor expiration dates for perishable goods and other time sensitive deliveries to eliminate loss



Supply Chain USE-CASE

Optimize inventory and asset utilization data

Inventory Optimization

Avoid over and understocking by tracking your inventory in real-time

Asset Utilization Data

Deliver greater operational efficiency, time savings and cost reductions

End-to-End Visibility

Protect assets and reduce the loss of goods through misplacement and theft
Enable priority delivery of perishables via date code/harvest date



Manufacturing USE-CASE

Obtain complete visibility of your inventory, assets and WIP

Real-time Visibility

- Eliminate wasteful "Search and Find" expenses
- Know the location of every required crate, pallet box and load carrier
- Cut costs and lead times in assembly and production processes

Continuous and Real-time Location Intelligence

- Improve overall inventory management, cycle time and process documentation

Asset Data

- Optimize workflows for highly customized products



Yard Management

Use-case

Locating the right car in post-production parking lot

Deeyook Touchless Tracking:

- Pinpoints the car instantly
- Saves time to repair the car
- Improves time to market



Manufacturing Use-case

Scanning boxes is time consuming

Deeyook Touchless Tracking:

- Eliminates the need to scan
- Reduces production time
- Increases productivity



Solving the Location Problem

Legacy Outdoor GPS, Cellular

- Challenged in dense urban environments
- High power consumption
- Limited accuracy
- Disruptive spoofing

Legacy Indoor BLE, UWB, Wi-Fi RSSI & TOF

- Dependent on infrastructure and site planning
- Limited accuracy & range
- Constrained by power, privacy

DEEYOOK



UBIQUITY

Tracking everywhere indoors and outdoors



SCALABILITY

Passive and infrastructure agnostic leveraging 8.5 billion existing Wi-Fi access points worldwide



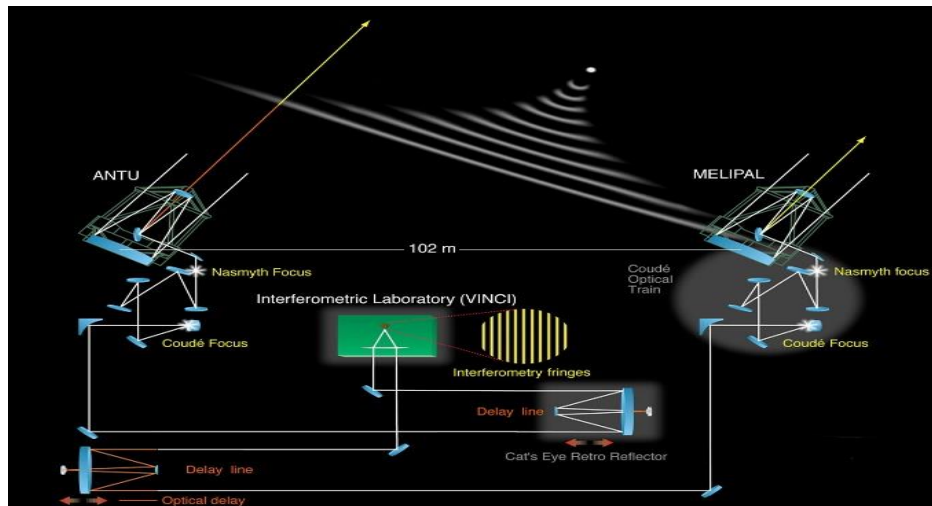
PRECISION

Highly precise (10 cm)



Technology Breakthrough

Touchless location tracking using existing Wi-Fi infrastructure



Interferometry



AI-based Physical Model



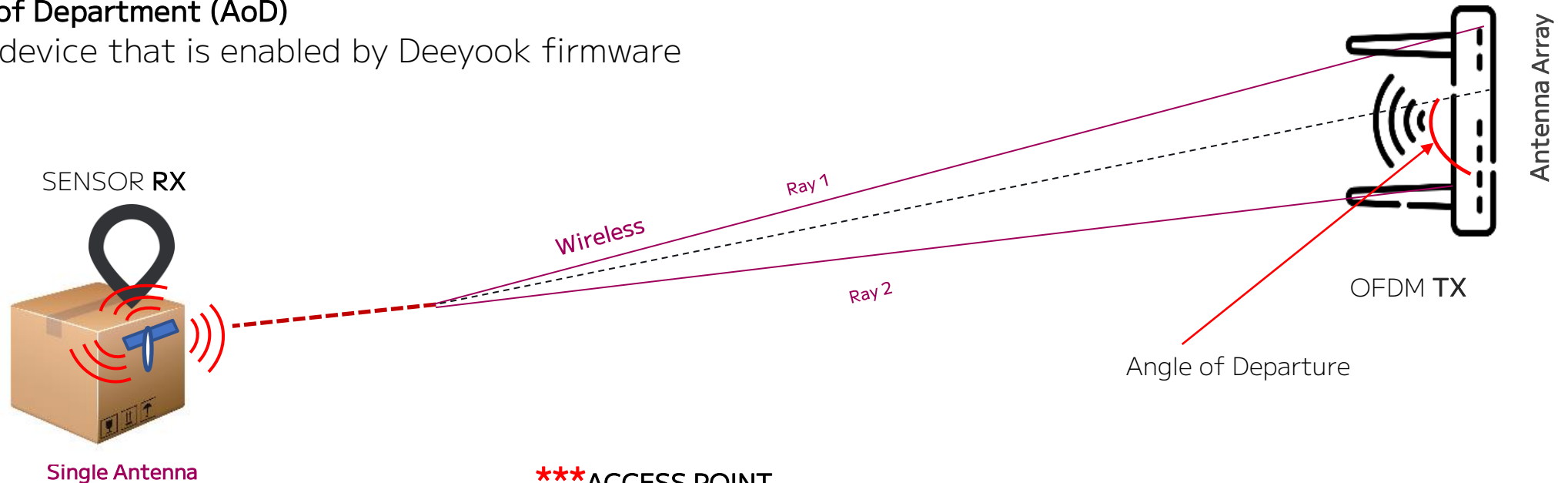
Technology Breakthrough

The Deeyook sensor is based on wireless interferometry

The difference in carrier phase between two free-space rays is translated into an angle.

Angle of Departure (AoD)

Any device that is enabled by Deeyook firmware

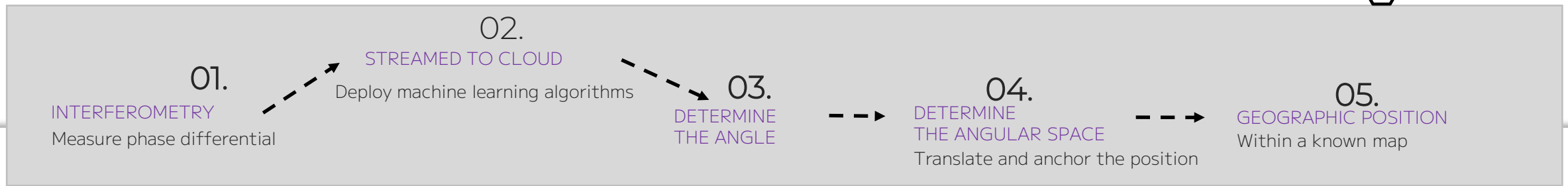
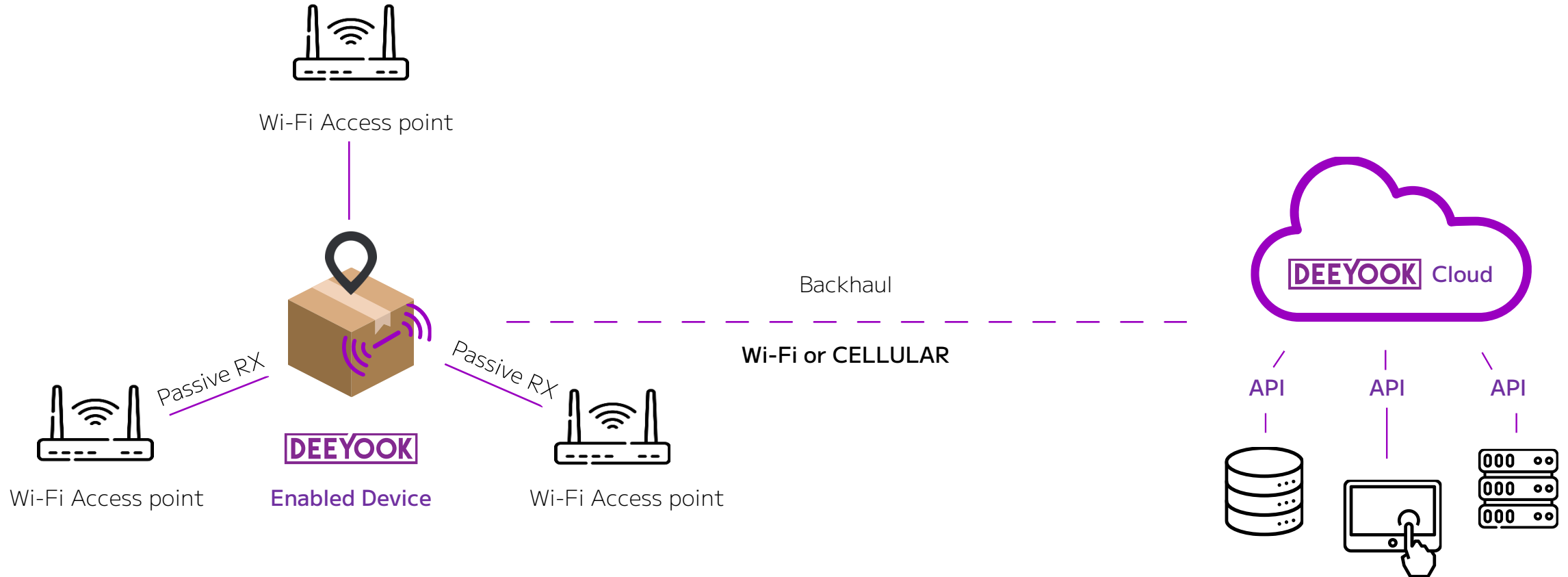


*** ACCESS POINT

To calculate the angles, we use any two-antenna device, ranging from home routers (which we use without needing to connect to) to cellular antennas (LTE & 5G).



Technology and API Flow



About us



Technology Breakthrough
Interferometry & AI-based physical model



Touchless Tracking
Asset location automation
as a service



Initial Target Markets
Manufacturing, logistics and backend
retail

Intellectual Property

Eight (8) US patents granted and

Eleven (11) additional system patents in
process

Partnerships



Industry Awards



Videos of Indoor and Outdoor Precise Touchless Tracking

Indoor: <https://www.deeyook.com/indoor-demo>

Outdoor: <https://www.deeyook.com/demo>





Touchless Tracking

Locate everything, anywhere,
anytime with Deeyook



THANK YOU!

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