



**DOT3D SOLUTIONS**  
PORTABLE HANDHELD 3D  
SCANNING FOR SHIP REPAIR

**Chris Ahern**  
VP, Sales & Marketing

DotProduct LLC  
Boston, MA

# WHO ARE WE?

## **DOTPRODUCT LLC**

### **Mobile 3D capture pioneers**

- Based in Boston, USA & Wiesbaden, Germany
- Delivering fully mobile, handheld 3D since 2012
- Worldwide network of resellers & software partners

### **Privately held company**

- Seed investment from Intel Capital & others





# EVOLUTION OF 3D SCANNING FOR SHIPBUILDING & SHIP REPAIR

2000s

2010s

2020s

# EVOLUTION OF 3D SCANNING FOR SHIPBUILDING & SHIP REPAIR



2000s

2010s

2020s

# EVOLUTION OF 3D SCANNING FOR SHIPBUILDING & SHIP REPAIR



2000s



2010s

2020s

# EVOLUTION OF 3D SCANNING FOR SHIPBUILDING & SHIP REPAIR



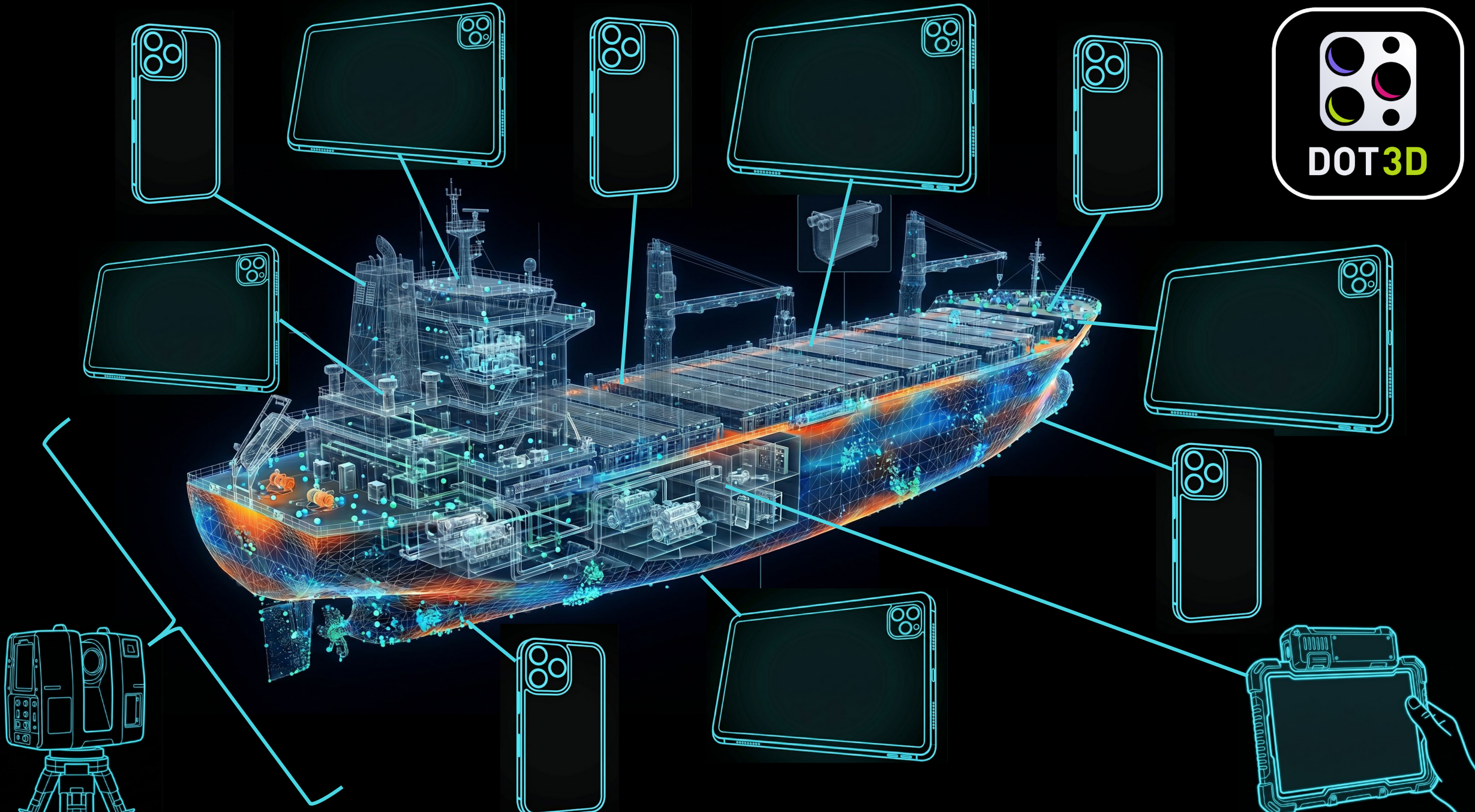
2000s



2010s



2020s





# WHAT IS **DOT3D**?

## **3D digitization app for maritime professionals**

- Available for iOS, Windows, and Android mobile platforms
- Delivering dense, accurate, color 3D point cloud data
- Supporting a wide range of 3D camera options: iOS LiDAR, RealSense, Q3D, Orbbec, etc.

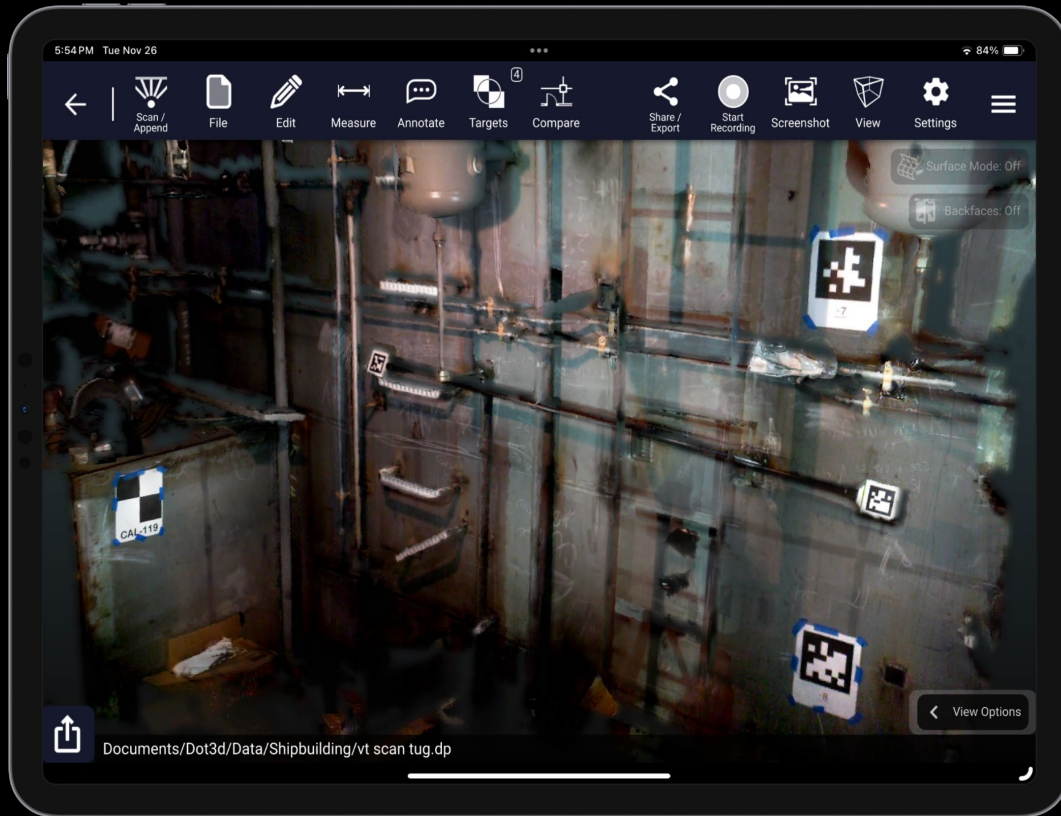
## **The most capable mobile 3D capture app**

- Advanced targeting workflows for precise data referencing
- Integration with other professional 3D hardware (i.e. RTK)
- Expansive internal feature set: measurement, editing, etc.
- Highly compatible exports for seamless workflow integration

# WHY DOT3D?

- 1. Professional solution**  
Built for large-scale deployments
- 2. Most accurate results**  
Via dynamic, proprietary optimization
- 3. Intuitive technology**  
Designed for practicality and ease of use
- 4. Large-scale 3D scanning**  
For indoor *and* outdoor 3D mapping





## WHY DOT3D?

### 5. Super fast results

Real-time feedback, rapid local processing

### 6. Secure data management

No cloud or internet connectivity required

### 7. Compatible technology

Easy integration with other shipbuilding tools

### 8. Advanced targeting workflows

Utilize targets for extra accuracy and referencing

# WHY DOT3D?

## 9. Multi-platform solution

Apps for iOS, Windows & Android devices

## 10. Very small file sizes

Highly compressed, proprietary 3D format

## 11. Practical pricing model

Budget-friendly options to scale out use

## 12. Proven global deployments

Deployed in both private and public sectors





# DOT3D FOR SHIP REPAIR

Increased throughput, speed and savings for:

## 1. Ship Repair / Retrofit

- Start planning with the 3D data ahead of time!

## 2. Ship Check Protocols

- Build 3D/2D mapping into your inspection SOP

## 3. Compartment Closeouts

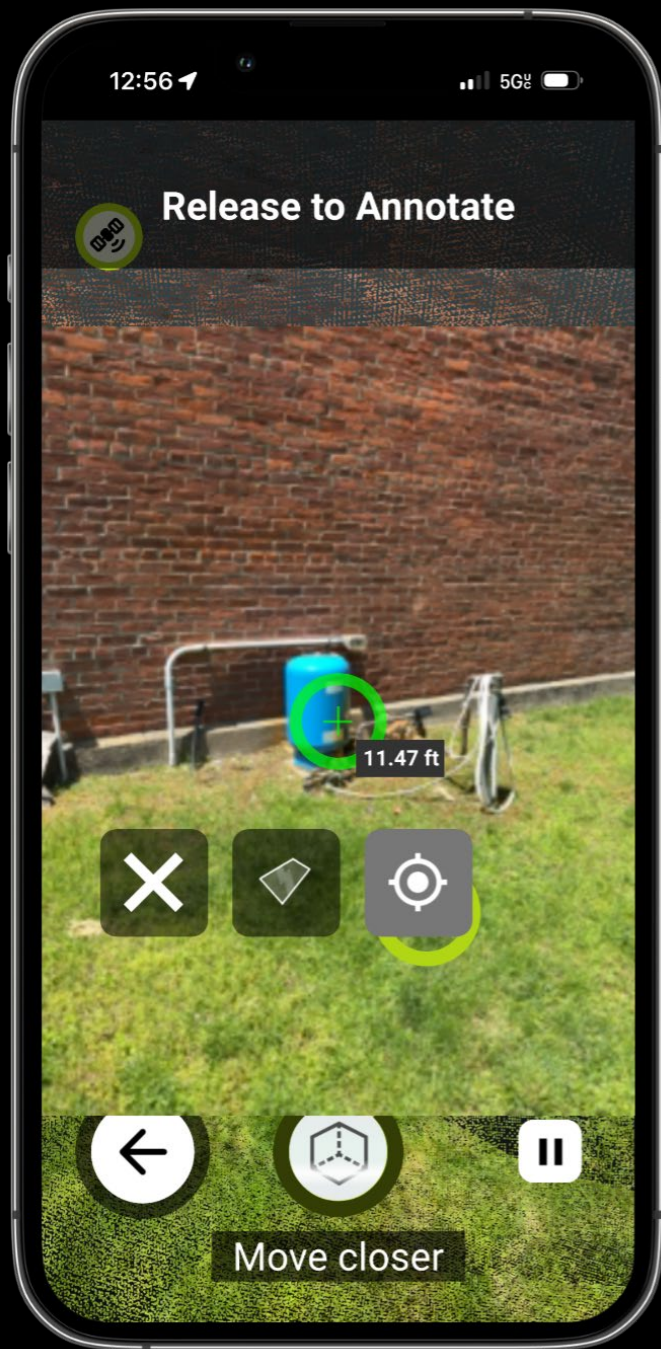
- Build 3D/2D mapping into your inspection SOP

## 4. Incident Mapping / Repairs

- Start problem solving immediately

## 5. Engineering / Shipbuilding

- Make informed decisions with in-house, rapid 3D



# SHIP REPAIR

## FEATURE HIGHLIGHTS

- High-resolution photos
- Scan-time annotations
- Highly compressed files

# SHIP REPAIR FEATURE HIGHLIGHTS

- Reference distance targeting
- Wall-to-wall constraints
- Survey control targeting





# HOW IS IT DEPLOYED?

- 1. Dot3D Software**
  - PRO** (iOS LiDAR) or **PRIME** (Windows/Android/GNSS)
- 2. Tablet / Phone**
  - iPad Pro or iPhone Pro
  - Windows tablet\*
  - Android tablet/phone\*
- 3. 3D Camera**
  - 1. iOS LiDAR** (built into iPhone/iPad Pro)
  - 2. RealSense, Orbbec** (attach to Windows/Android device)
- 4. Recommended Accessories**

Rugged case/cage, light kit, printed targets, Dot3D Edit
- 5. Additional Options**

RTK/GNSS, laser distance measurer, training services



# THE RESULTS **FROM YESTERDAY'S LIVE SCANS**

**Scanning platform:** iPhone 17 Pro Max with Dot3D Pro

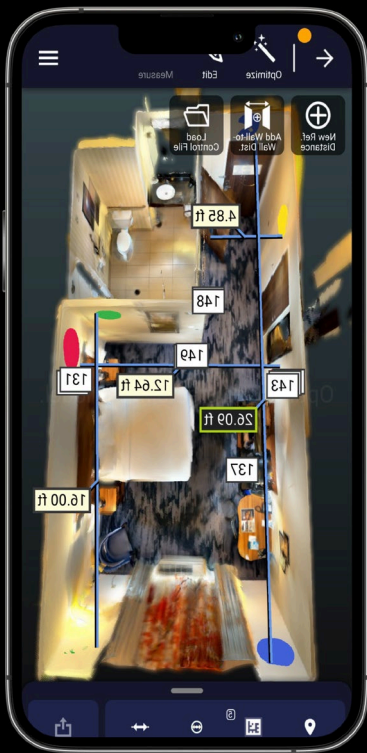
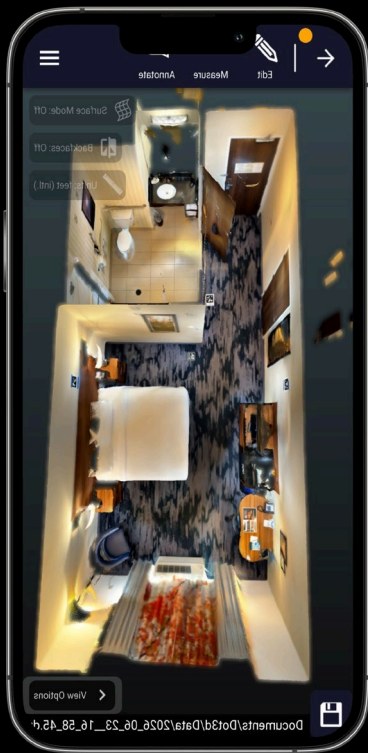
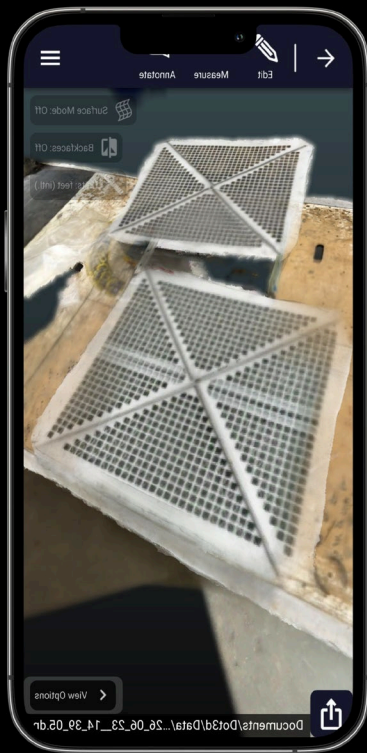
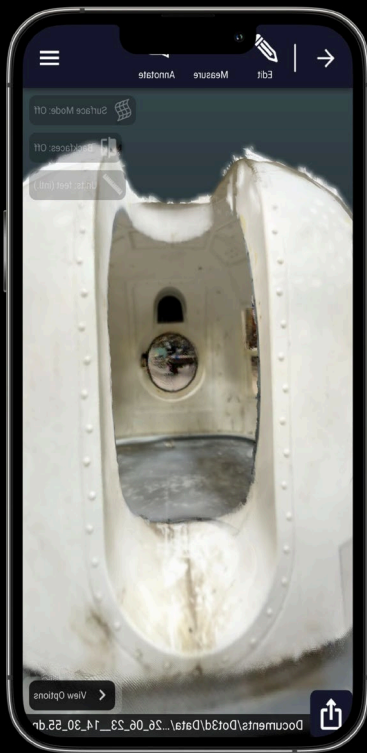
**Total scan time for each scan:** 1-5 minutes

**Optimization times:** All under 1 minute

**Optional workflows utilized:**

- Scan-time annotation
- HD photo capture
- Targeting

# THE RESULTS FROM YESTERDAY'S LIVE SCANS





# THE RESULTS **FROM YESTERDAY'S LIVE SCANS**

Let's take a closer look...



**SAMPLE DATA:**

**YouTube**

**SketchFab**



**MORE INFO:**  
**[www.dot3d.app](http://www.dot3d.app)**