



TRINAV: Campus Navigation Made for Students

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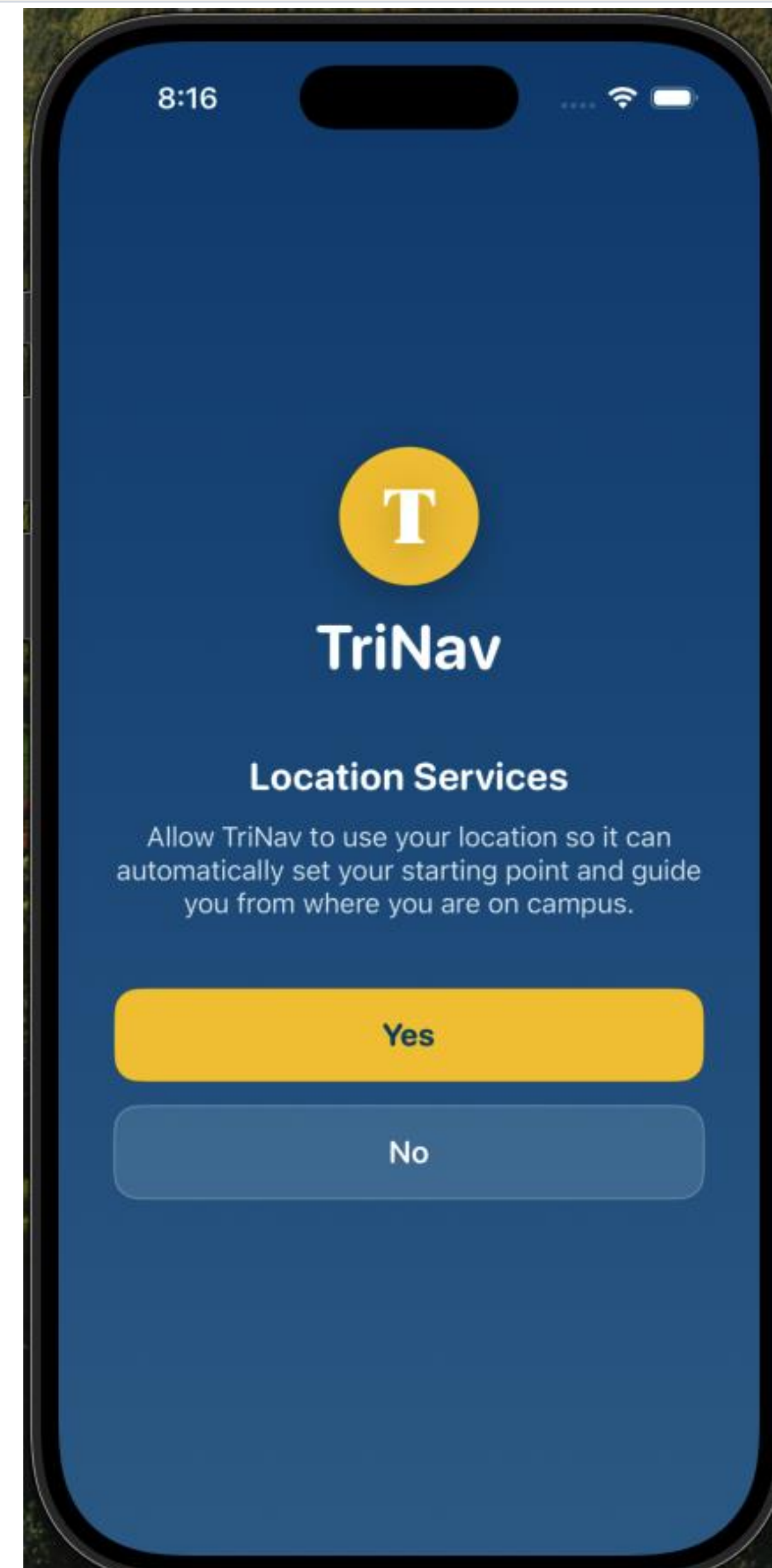
Overview

TRINAV is an interactive campus map designed specifically for Trinity College students. It improves navigation by showing real walking routes, recognizable locations, and a more immersive, student-centered view of campus than generic map platforms.

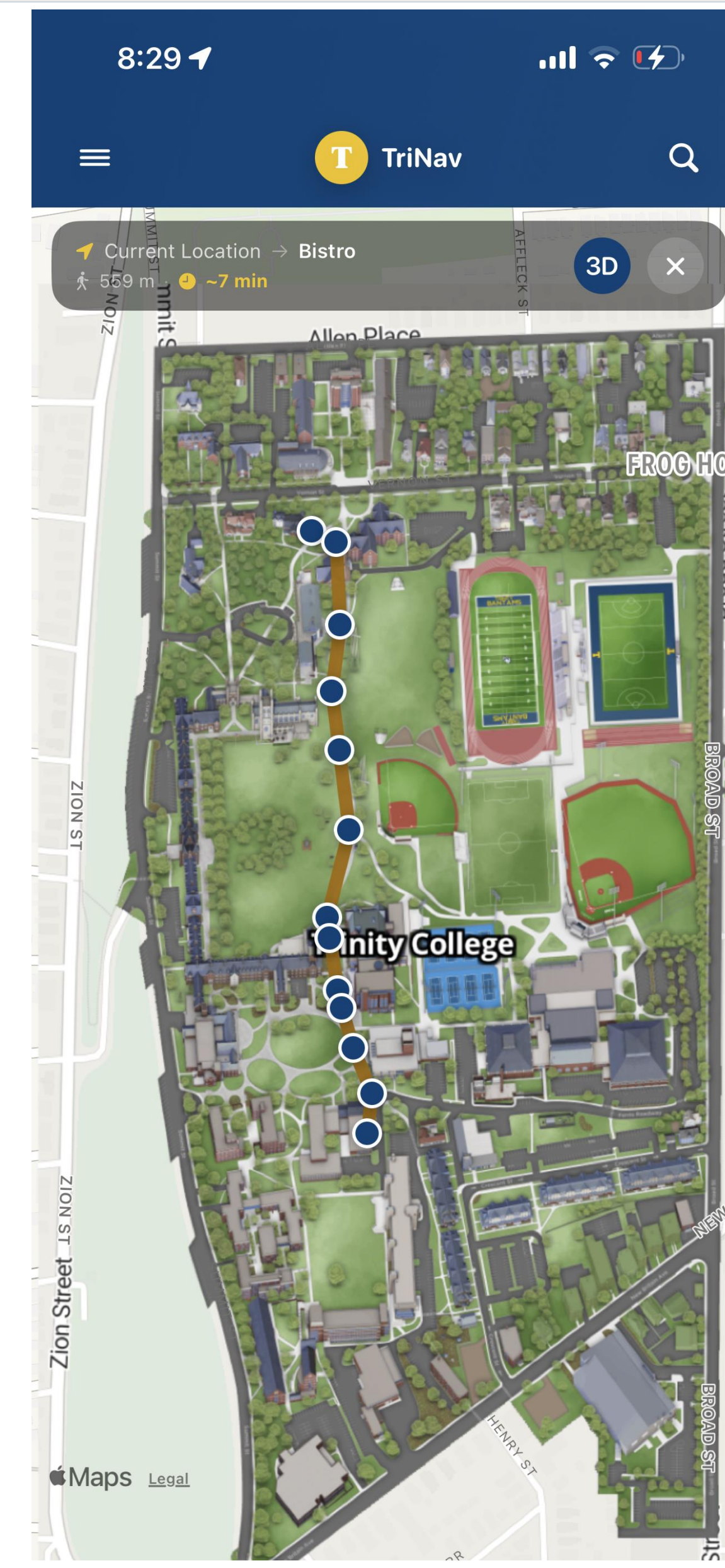
The Problem

Current navigation platforms do not work well for Trinity's campus. Most map apps are designed for roads and cars, not for how students actually move through campus on foot. They often miss useful walking paths and shortcuts, and they rely too heavily on building names or codes that can be confusing for students.

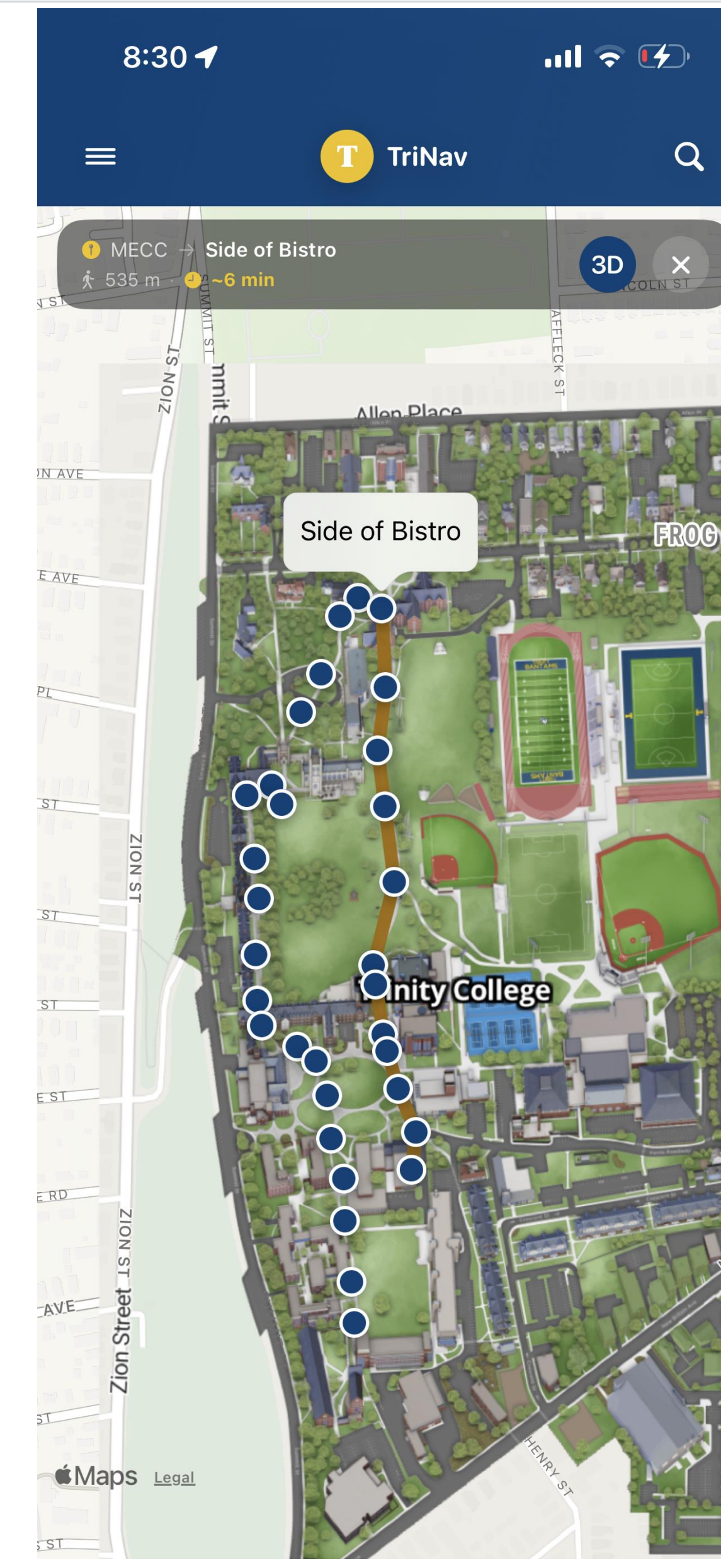
Main Visual



Requesting Precise Location Access



Map With Location Services On



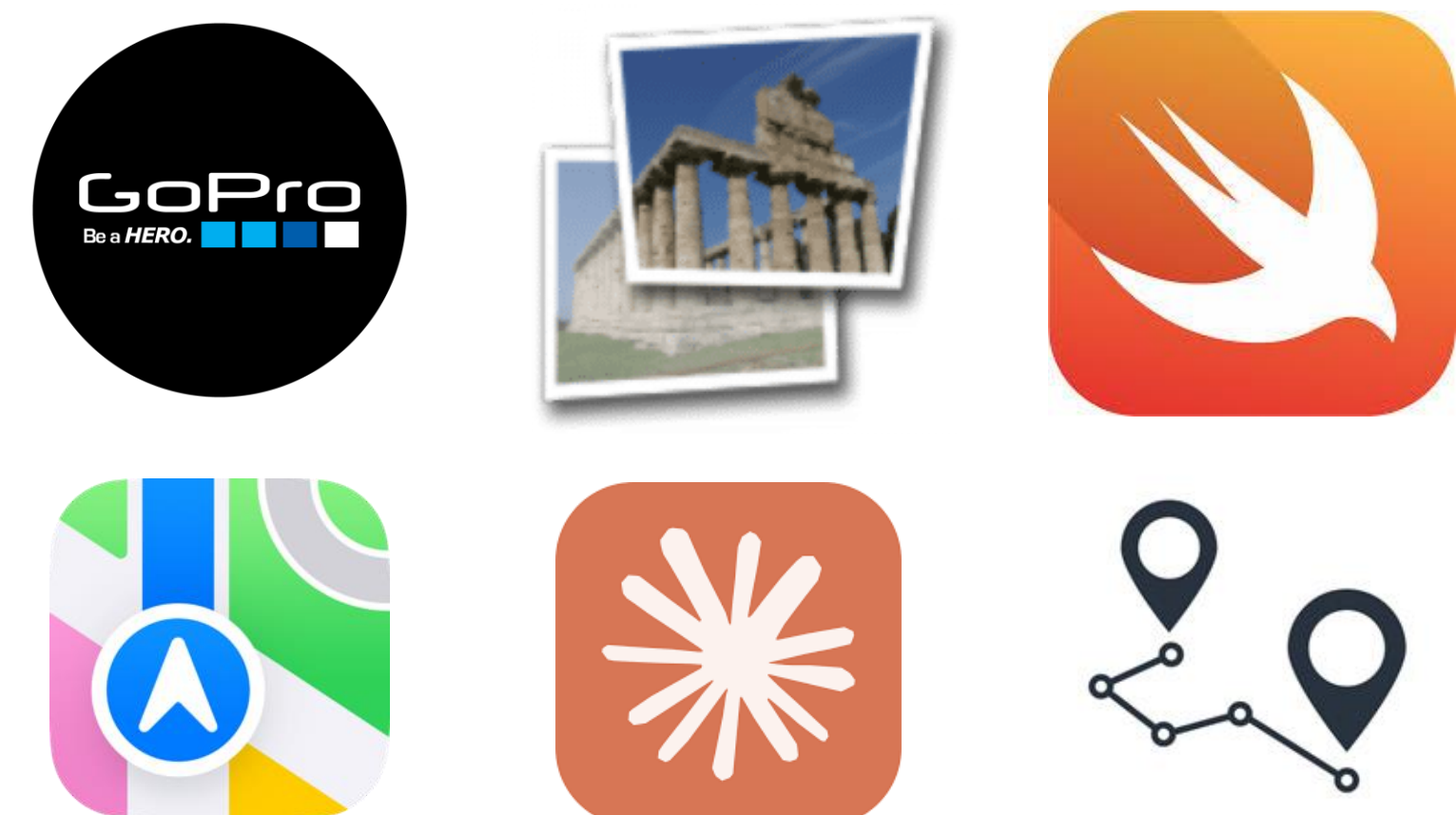
Map With All Current Nodes Showing



Un-Stitched 3D Images Taken On Campus



Technology Stack



These tools supported our workflow in campus image capture, stitching, map building, and app development.

Future Work

TRINAV has strong potential for continued development. Our next steps are expanding node placement across campus and improving navigation accuracy to better reflect real student movement.

Our Solution

TRINAV rethinks campus navigation around the Trinity student experience. Using a walking-first structure, meaningful campus paths, and immersive visual context, it creates a more intuitive and student-centered navigation experience.

Key Features

- Walking-first campus navigation
- Trinity-specific path and node network
- Student-centered visual context
- Environmental sound adds a more immersive sense of place
- Campus imagery captured on site
- More intuitive than generic map apps

Acknowledgements

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