

Empowering visually-impaired Accessible and Inclusive Packaging



285 million people are visually impaired

globally

246 million have low vision

39 million are blind

1. Introduction to the NaviLens Technology



The Problem

The visually-impaired are not completely independent in **unfamiliar areas**



Train Stations

Hotels

This happens in all kind of spaces

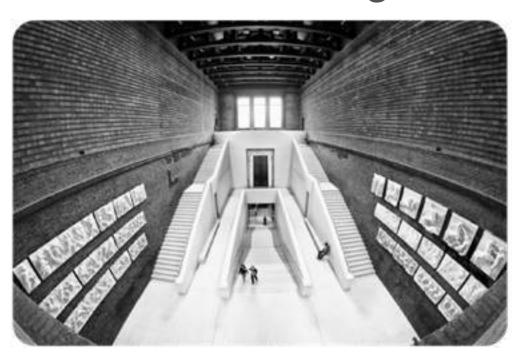


S018

Public Buildings



Hospitals







Our idea,

Why don't to put something on the **signage** and read it using a mobile phone camera?

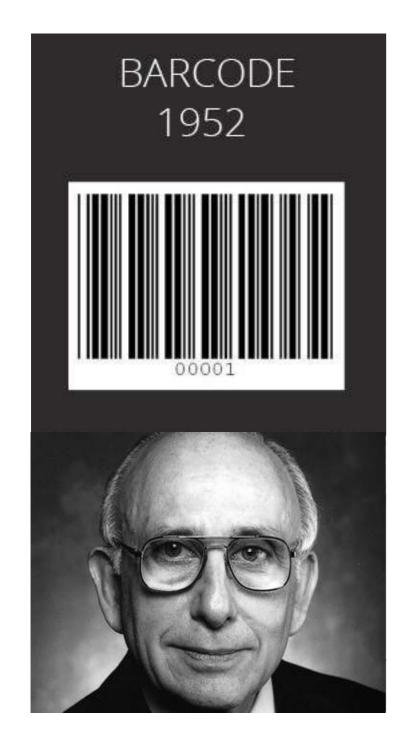






How?

Our first approach was to add a QR code on the signage



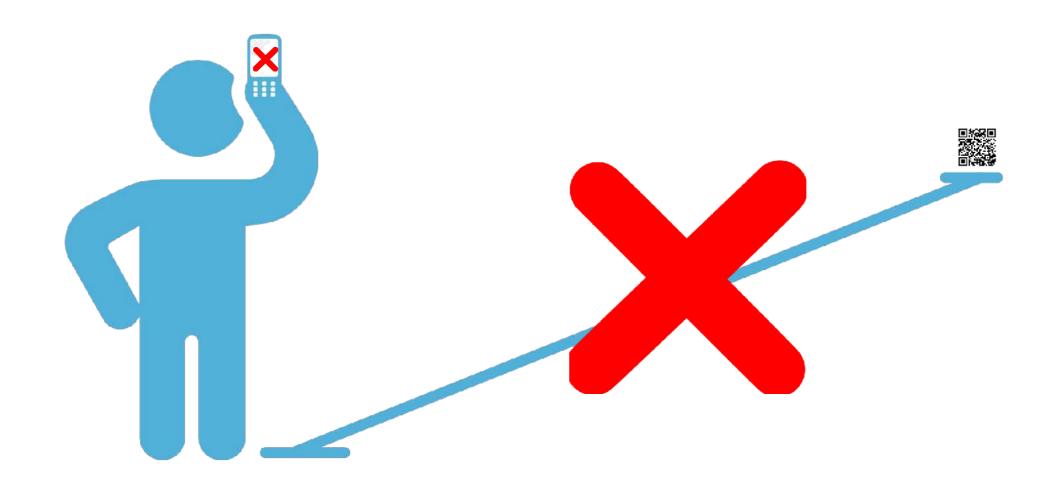






But QRs don't work...

Because it's not possible to read a QR code from far away without having to focus on or frame it

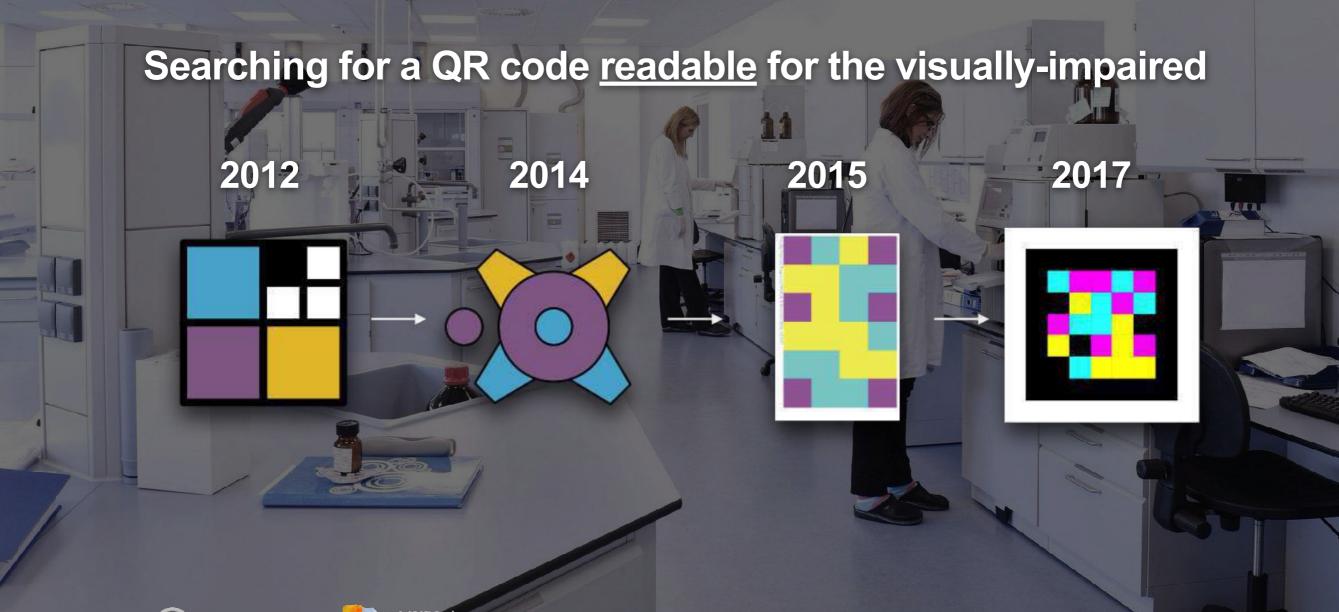






5 years of intense R&D 2012 -> 2017

between Neosistec Startup & the University of Alicante



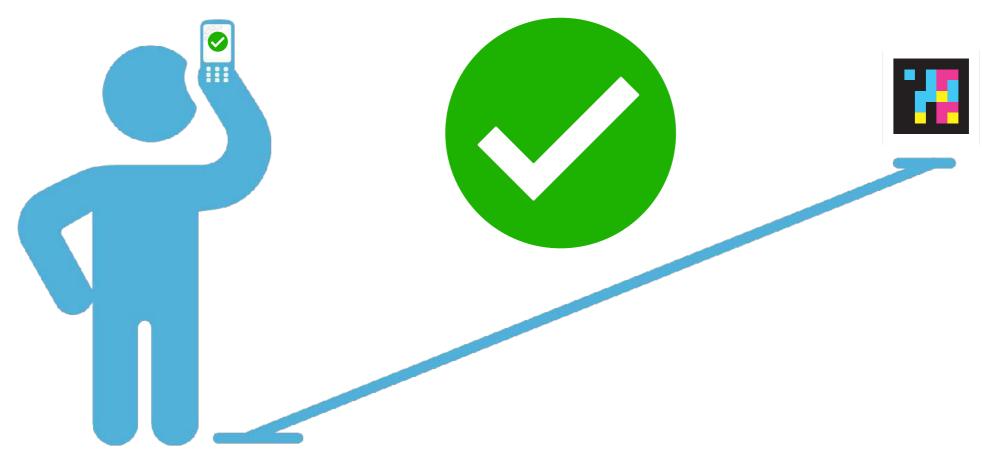


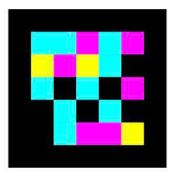






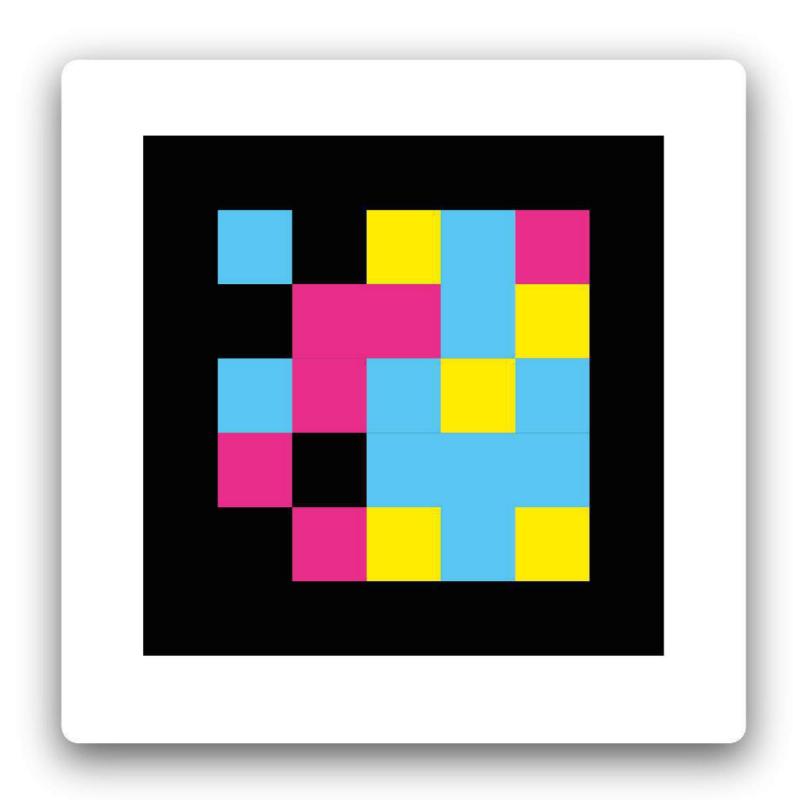
A scannable code up to 40 feet away in only 0.03 seconds! And without needing to focus on it!





The NaviLens code PATENTED

The NaviLens Code



Unique value: Distance + Angle + Speed



- + 80° degree

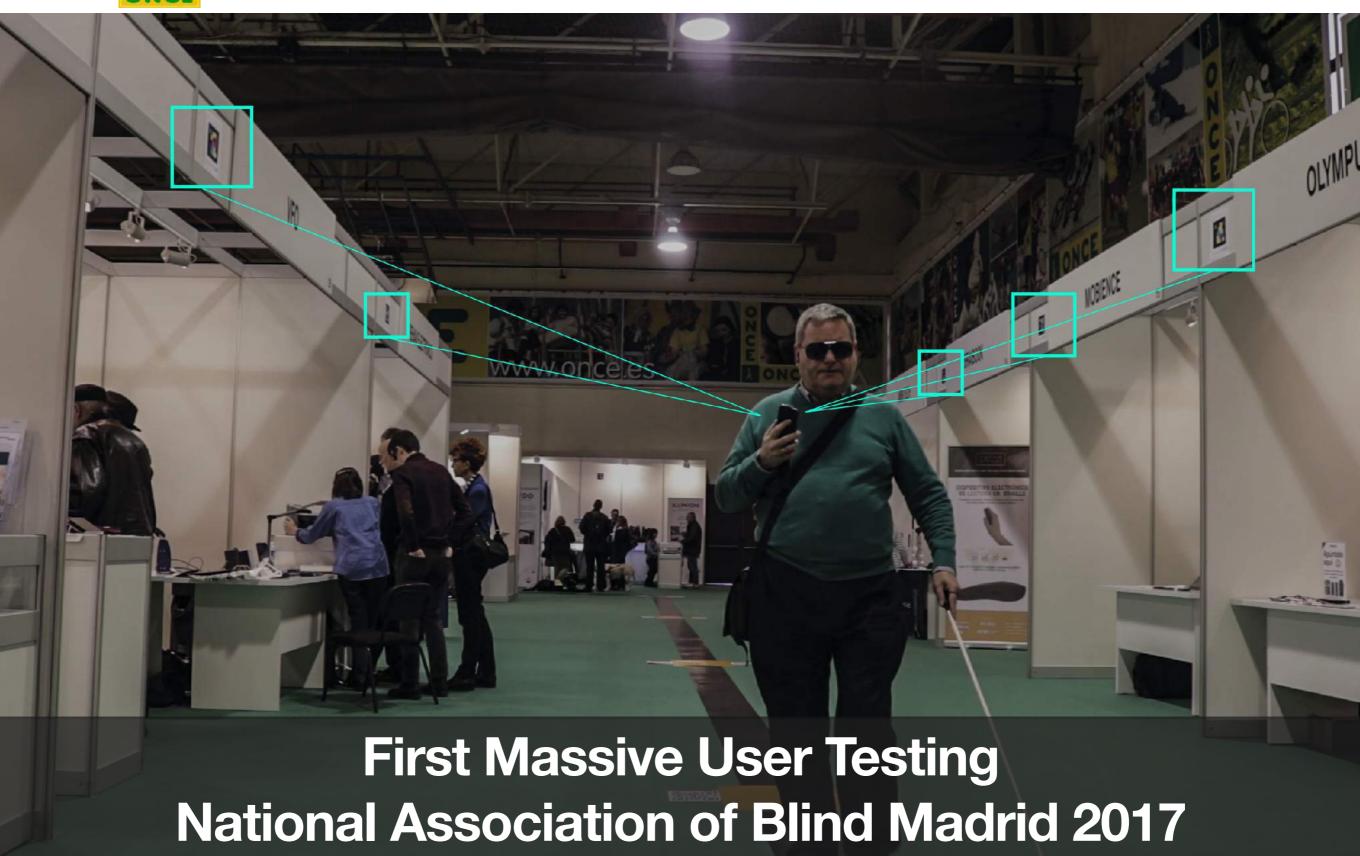
2.

Validation by users and visuallyimpaired organizations





TIFLOINNOVA TRADE SHOW - Madrid 2017





Adding the NaviLens codes in the signage -> Making the booths visible to the blind users

Extraordinary Users Feedback!



This is amazing!

ONCE Spain





France

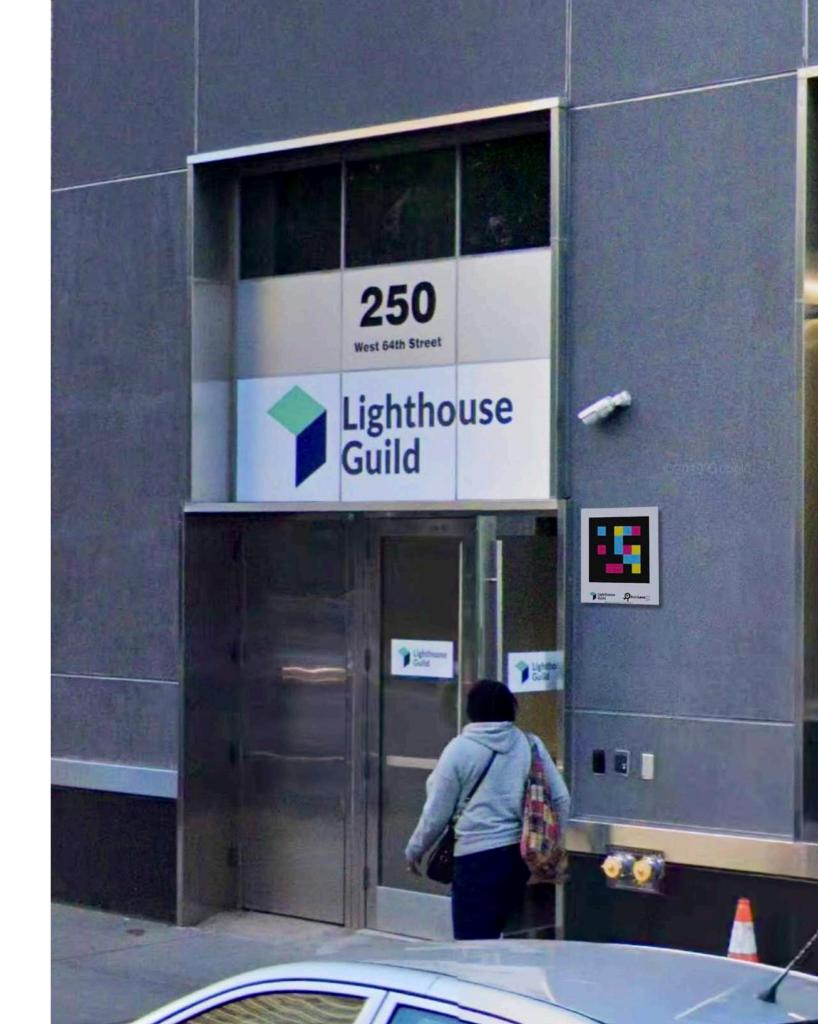


RNIB HQ London, UK



LIGTHOUSE GUILD HQ

New York, USA



First implementations 2017-2019



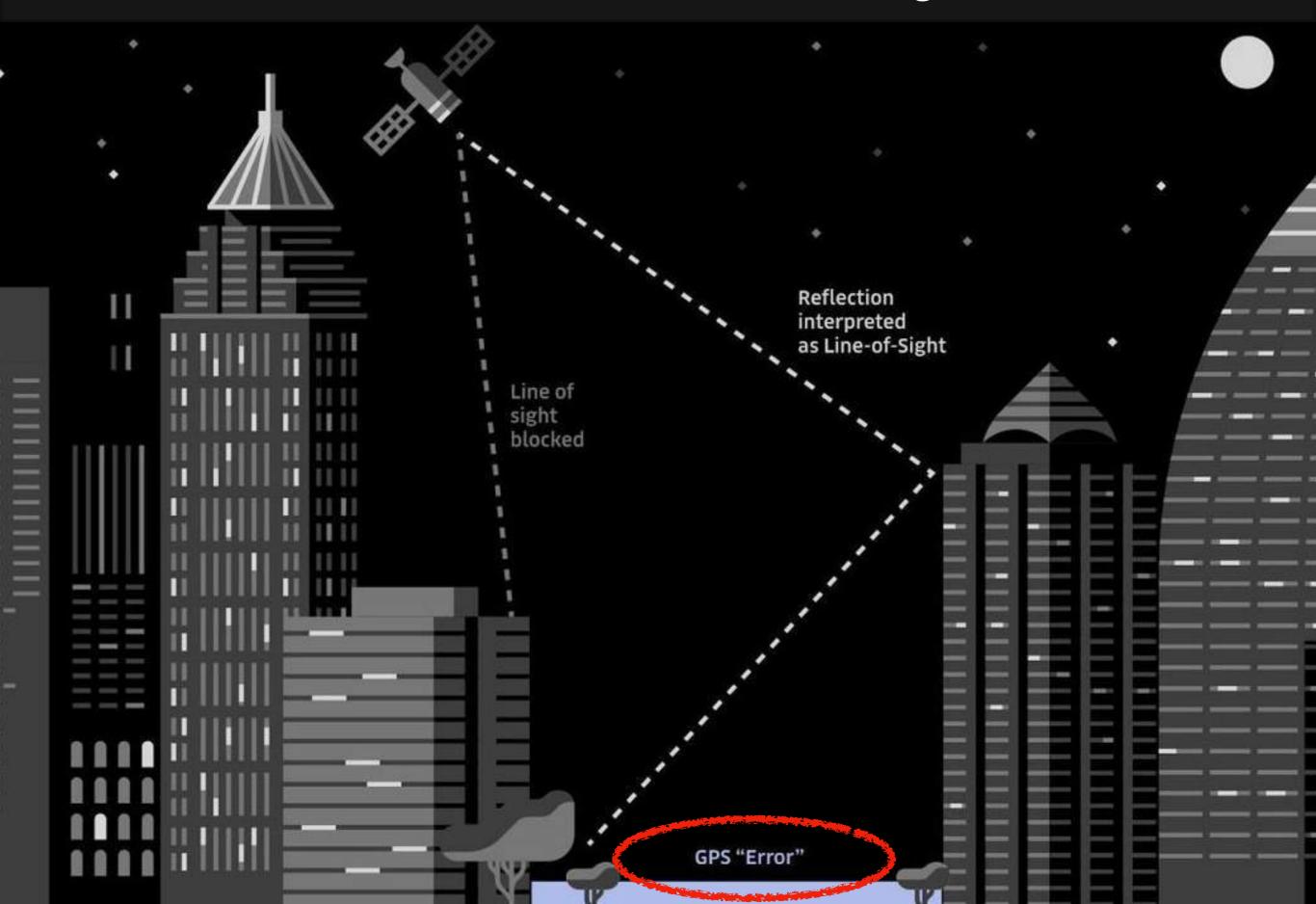


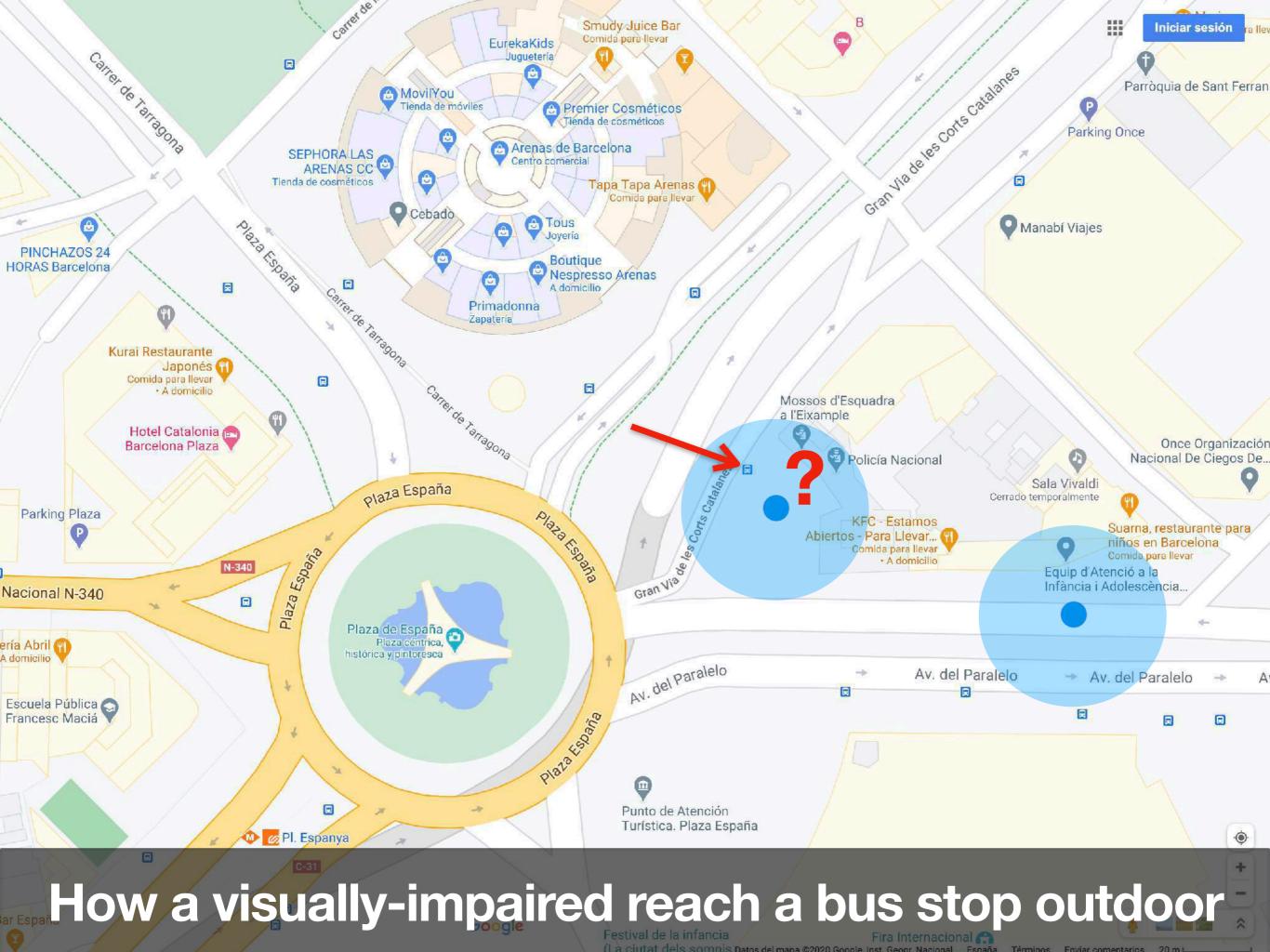


Transports Metropolitans de Barcelona



OUTDOORS: GPS is not accurate enough for the blind











12' inches/30 cm vinyl code readable up to 66 feet / 20 meters far away

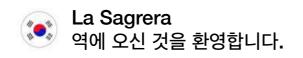
Download NaviLens GO App to scan the next slides

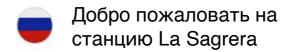




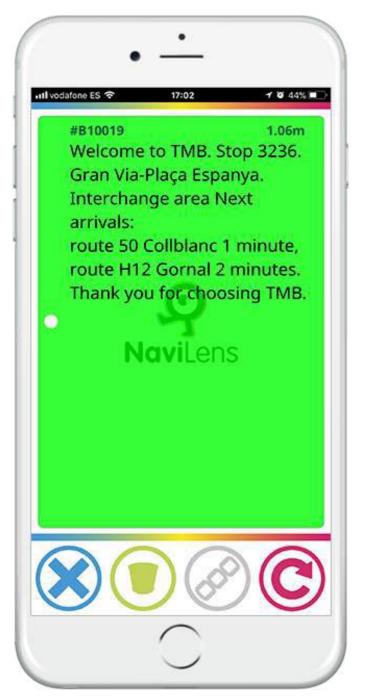




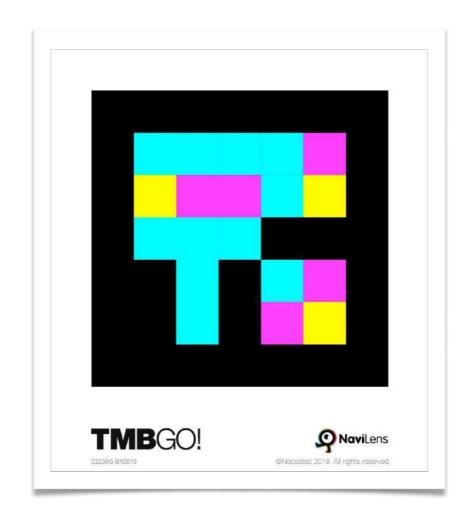


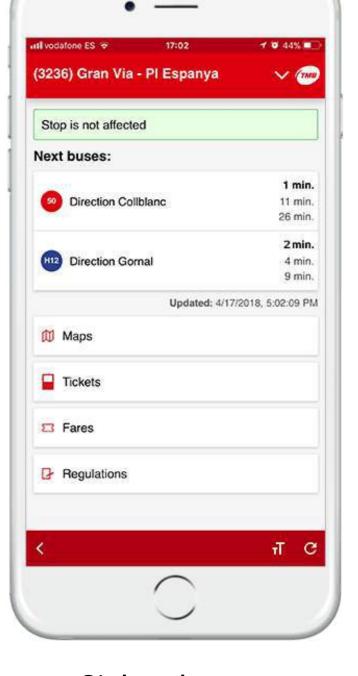






AN UNIVERSAL SIGNAGE FOR EVERYBODY



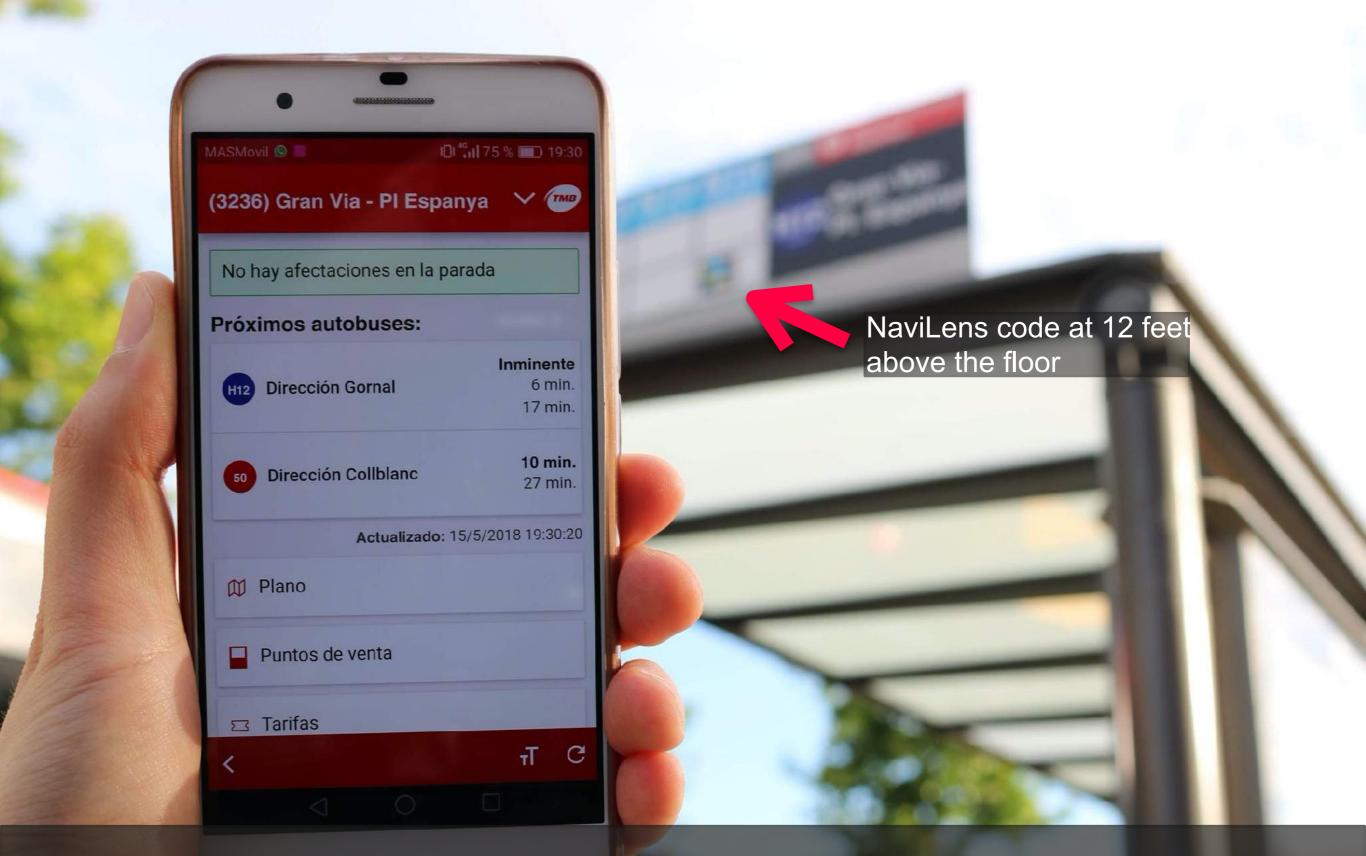


Visually Impaired (AUDIBLE INFORMATION)

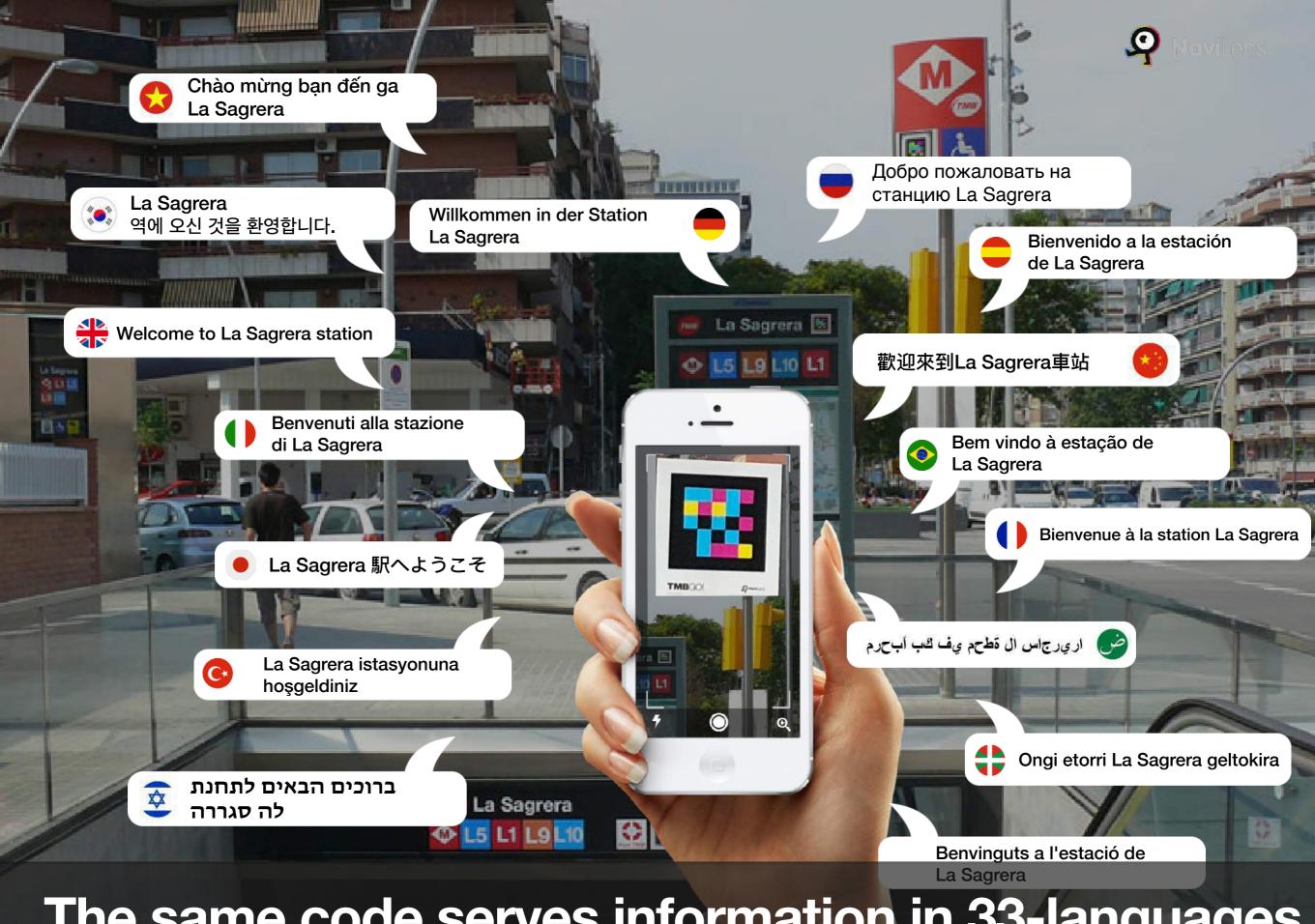
Sighted users (VISUAL INFORMATION)



Location of the bus stop and audible real-time information for the blind



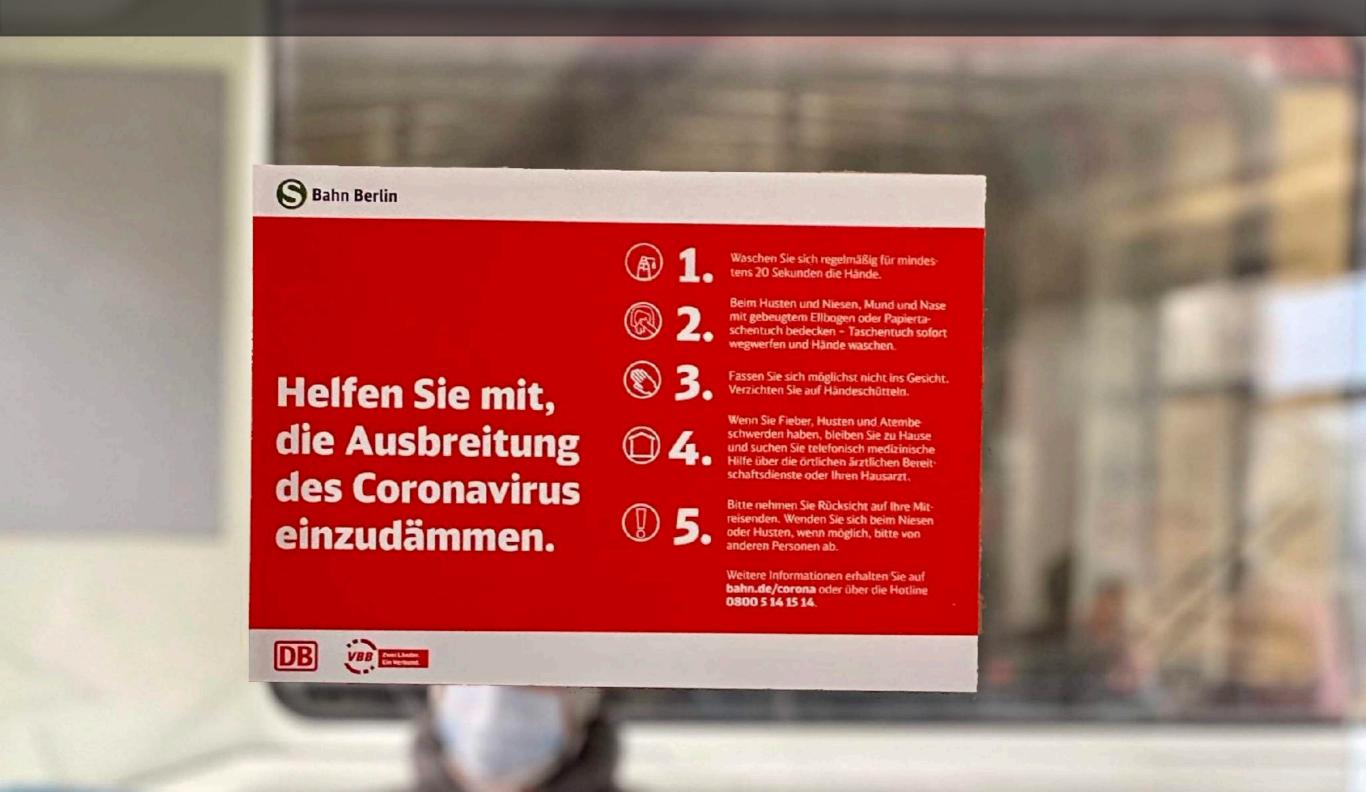
Contextualized Real-time information at a glance for everybody



The same code serves information in 33-languages

Accessible information breaking language barriers for everybody

This information is **not accessible** for the visually-impaired



And it's not accessible for non-german speakers



NaviLens helps blind users and sigthed users that don't speak German



Including non-roman languages like Japanese







Manhattan Bus Pole with the NaviLens code

Easy implementation -> <u>Easy scaling</u> As simple as adding the code on the current bus stops







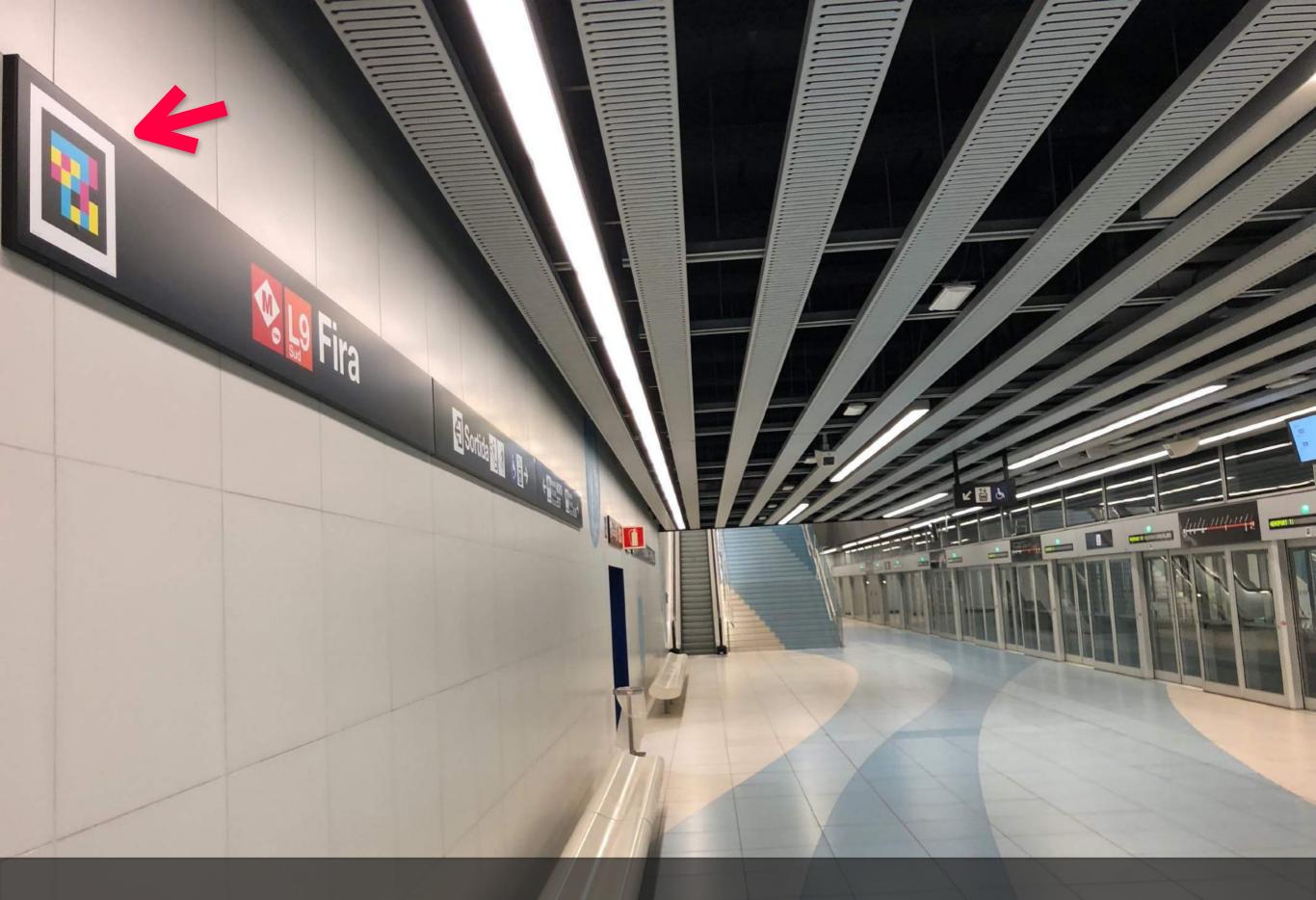


3.2. Indoors Subway Wayfinding

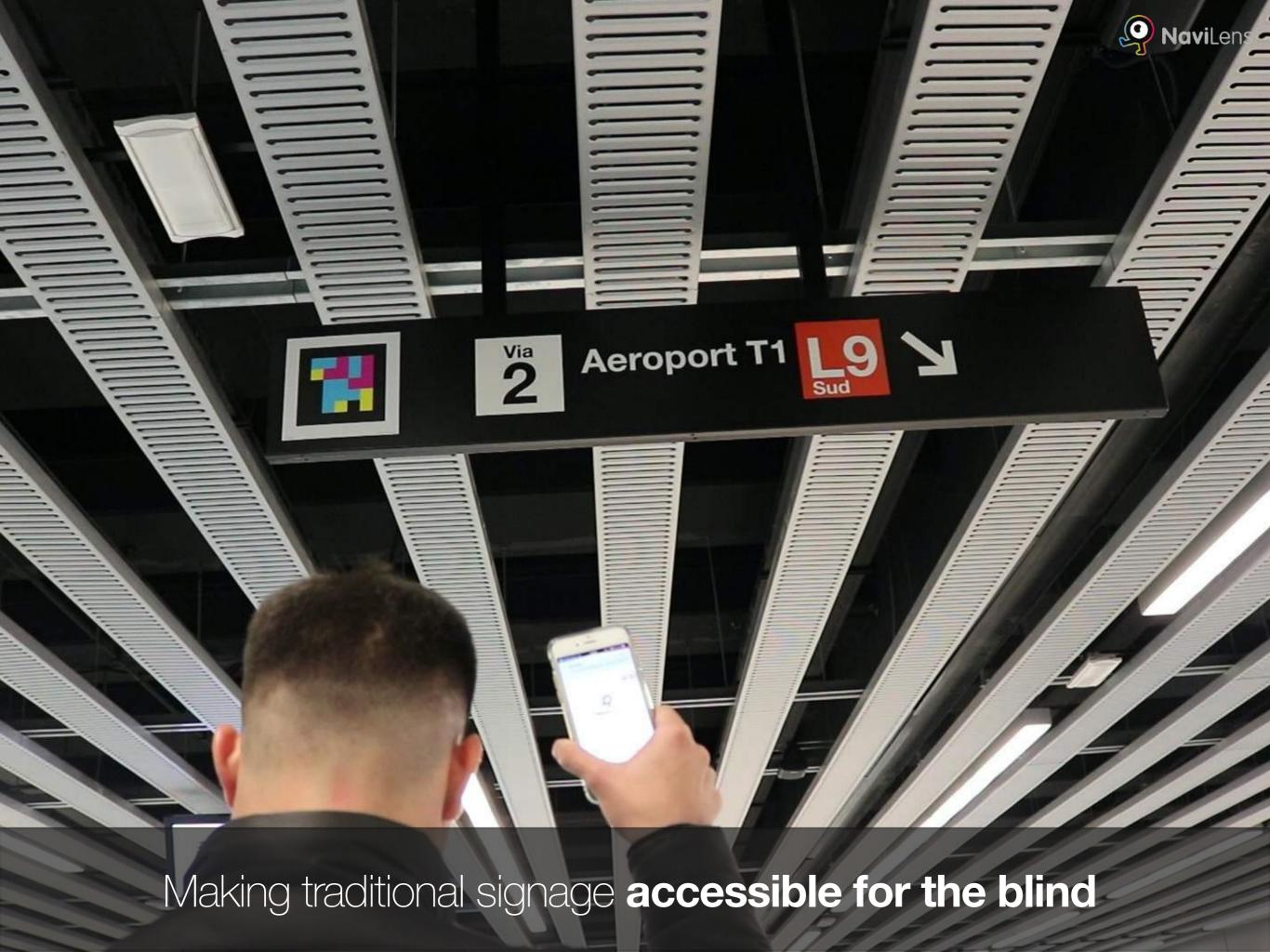
How to solve the **INDOOR** navigation for the blind?

without any GPS signal





Easy: Adding a NaviLens code on the current signage





panel of 20 blind users







atención al ciudadano customer service centres.





Verdaguer Urquinaona Jaume 1 Ciutadella Vila Olimpica





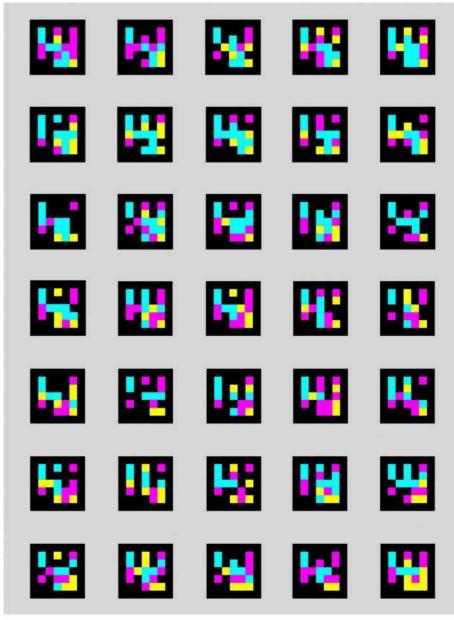
Smart Cities

These colorful stickers are helping blind people find their way around

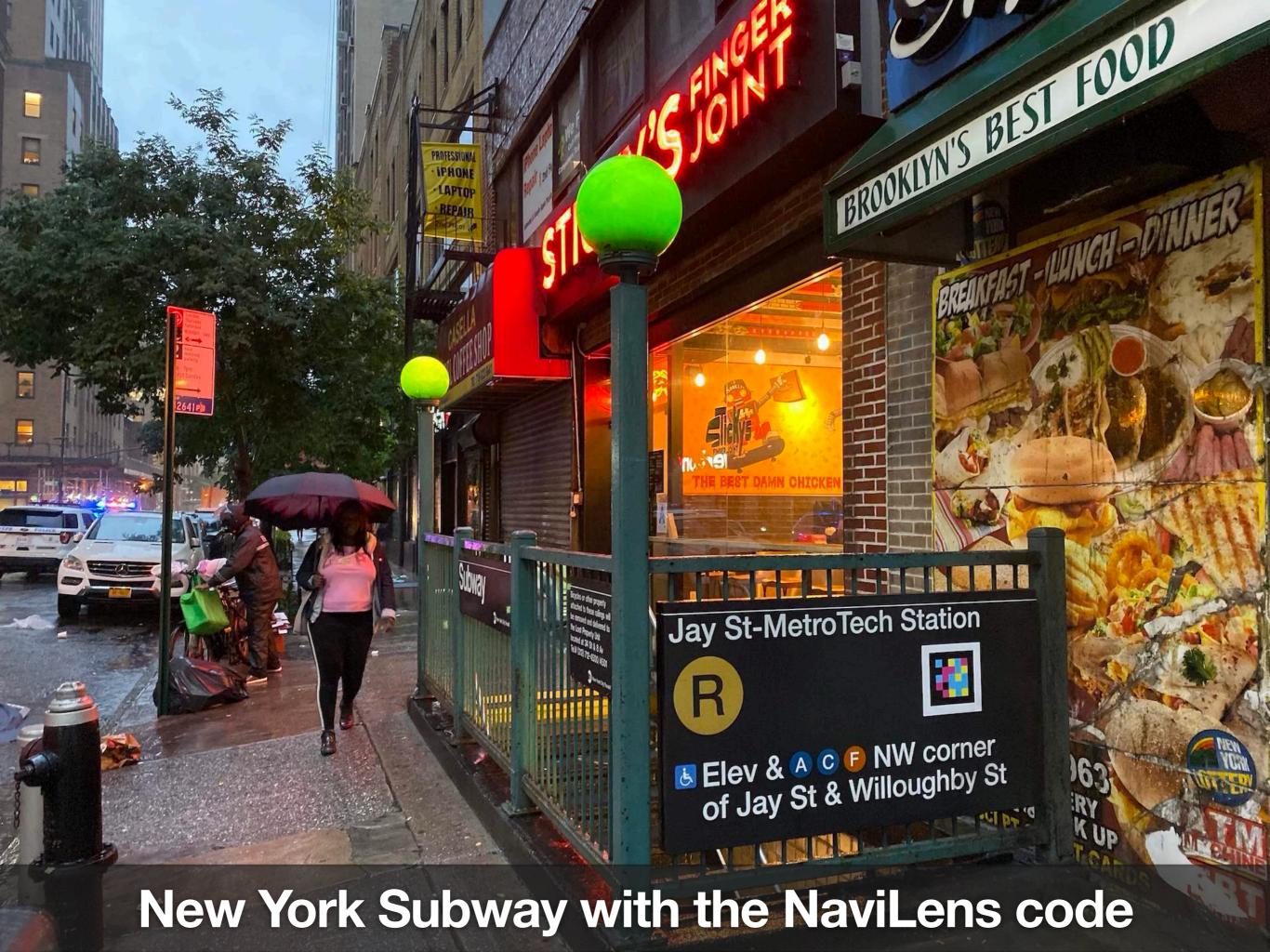
If you have a cell-phone camera, the NaviLens system can give you vital information about where you are.

by Frank Swain

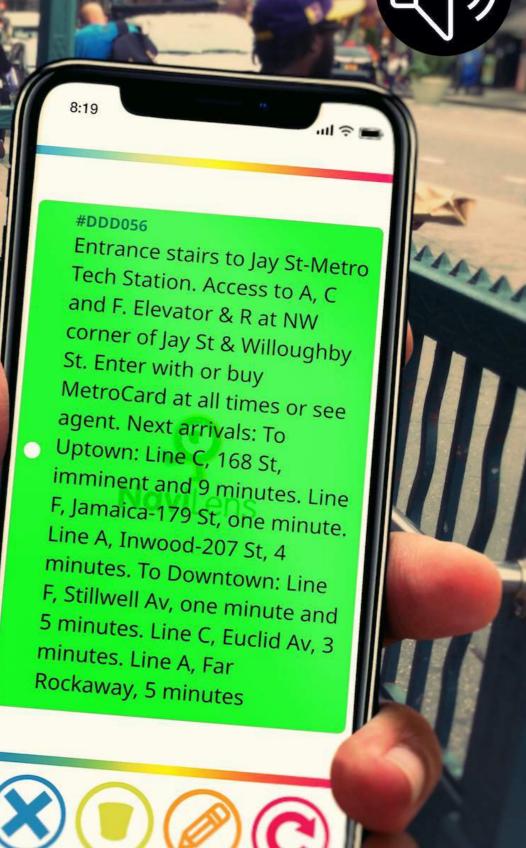
Jun 6, 2019



NAVILENS



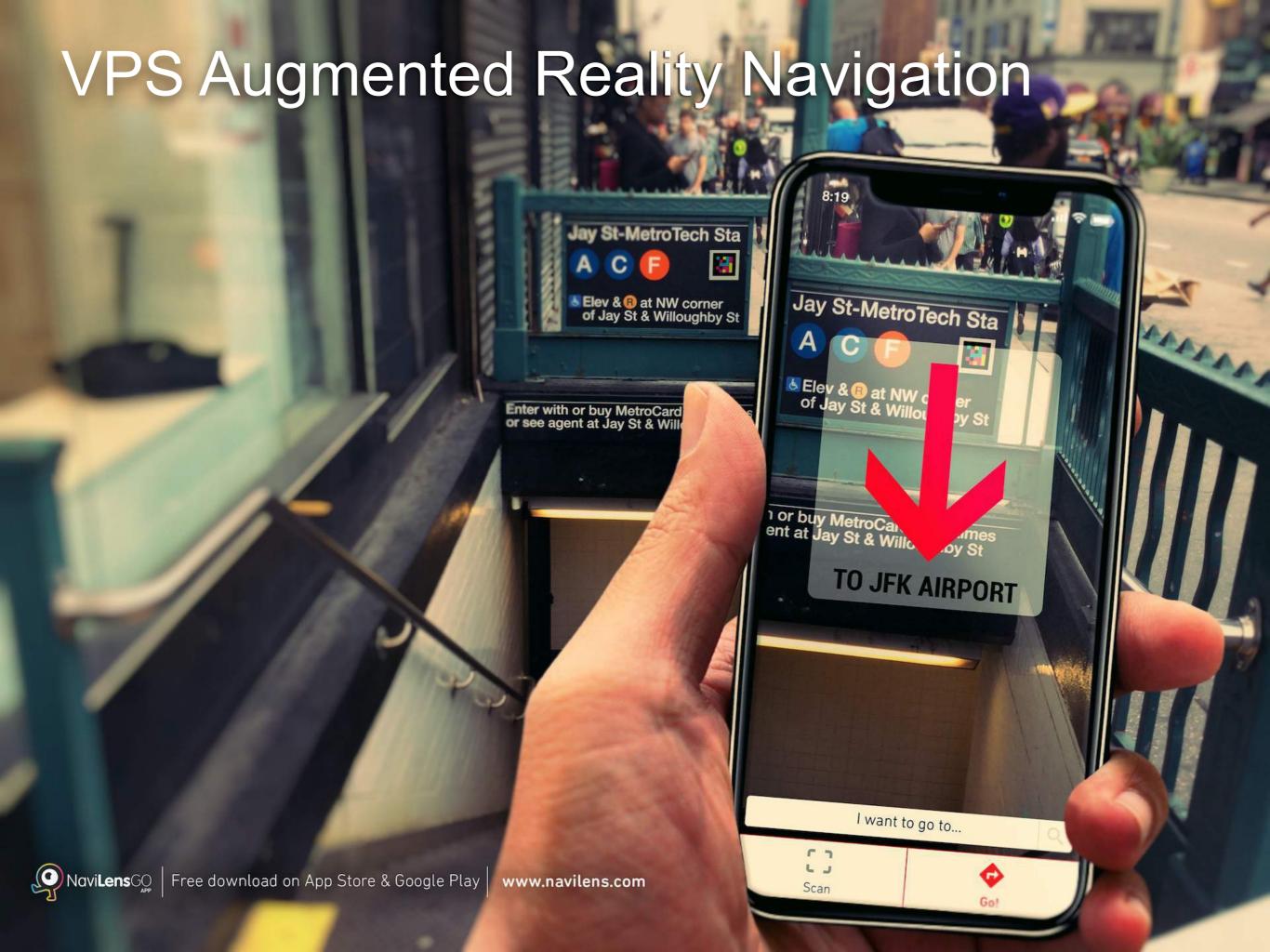






Enter with or buy MetroCard or see agent at Jay St & Will

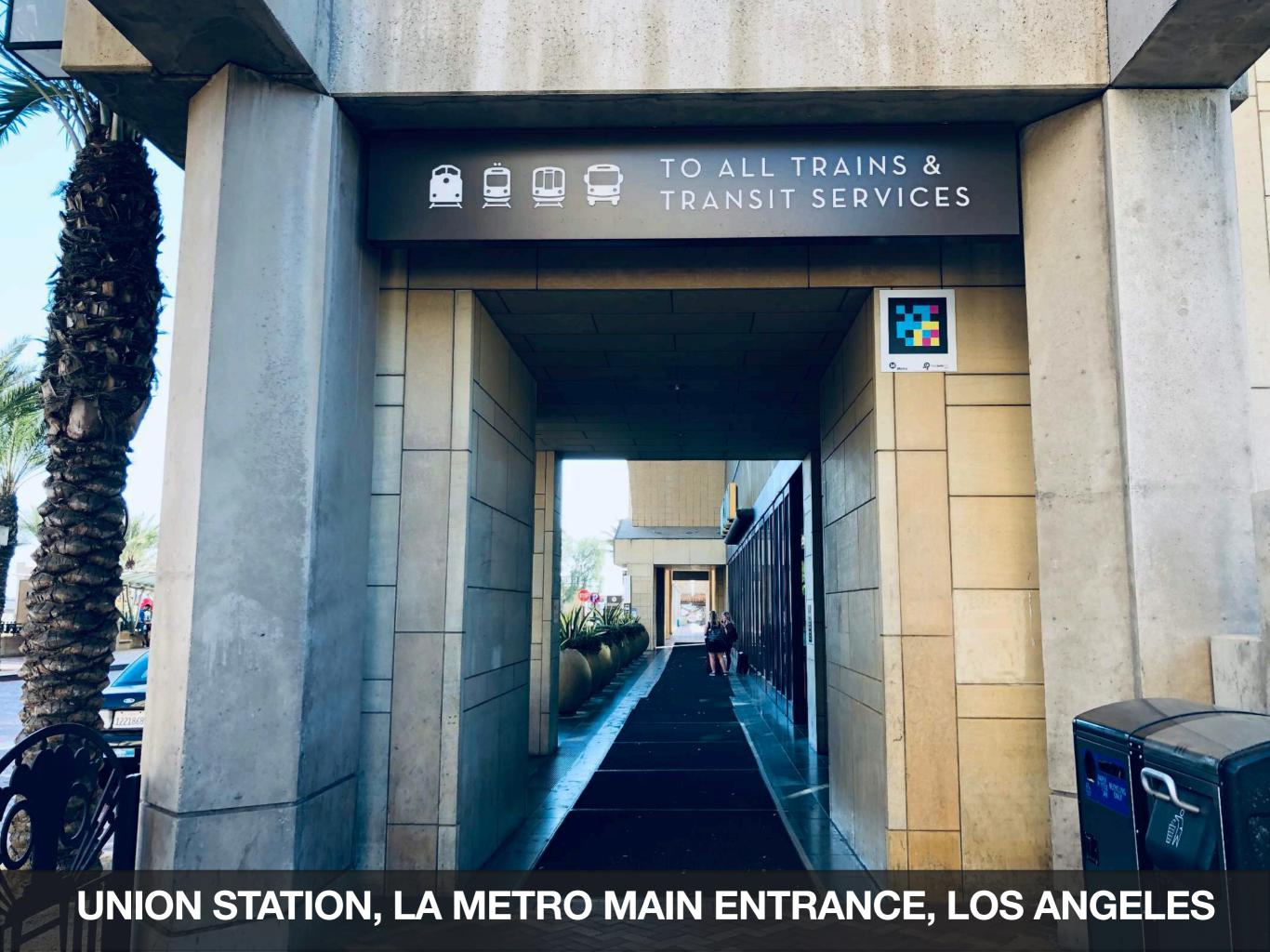








Empowering the visually-impaired to be fully independent









CREATING AN INCLUSIVE WORLD FOR EVERYBODY

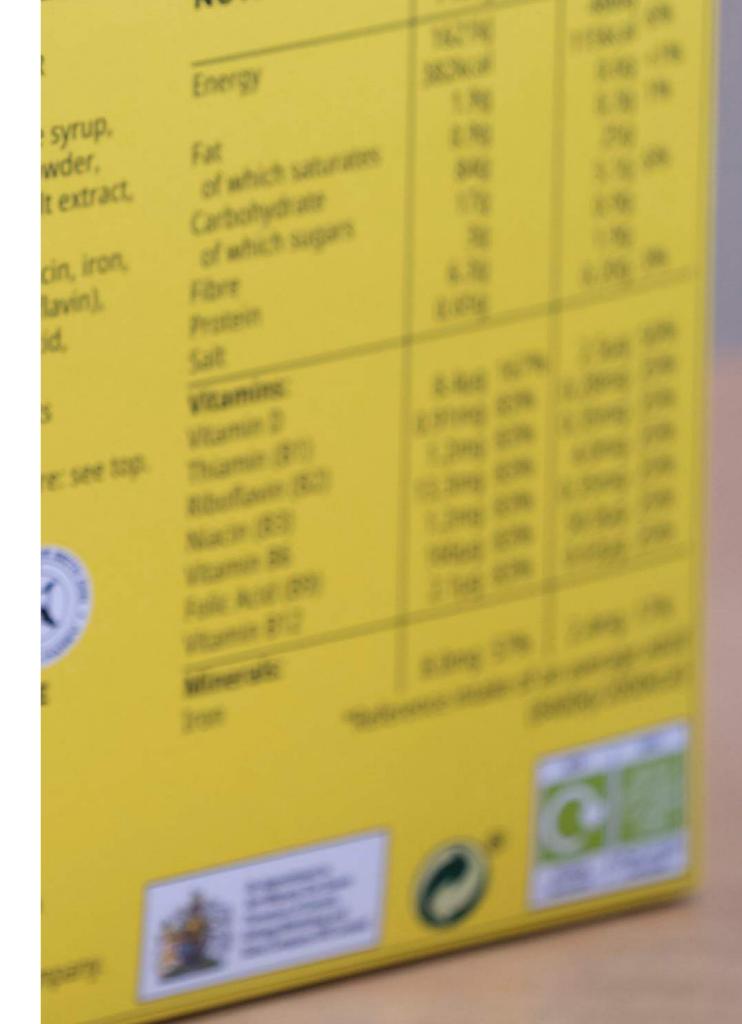
NaviLens

Accessible and Inclusive Packaging





9 in 10 blind or partially sighted people said they have difficulty reading information on packaging*







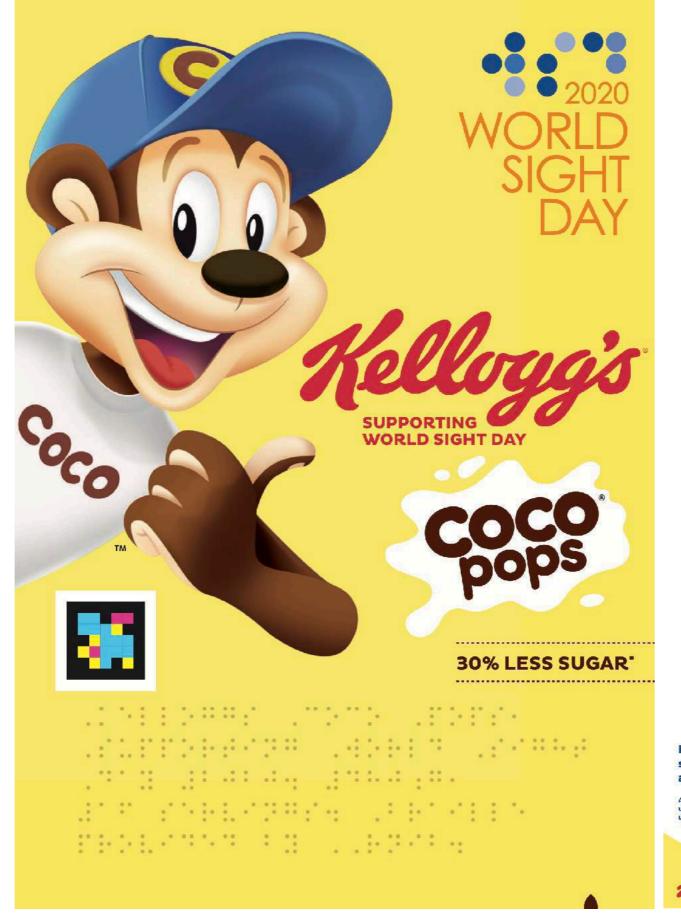
WORLD SIGHT DAY 08 / OCT / 2020



RNIB

See differently







RNIB

See differently



Download NaviLens GO App to scan the next slides



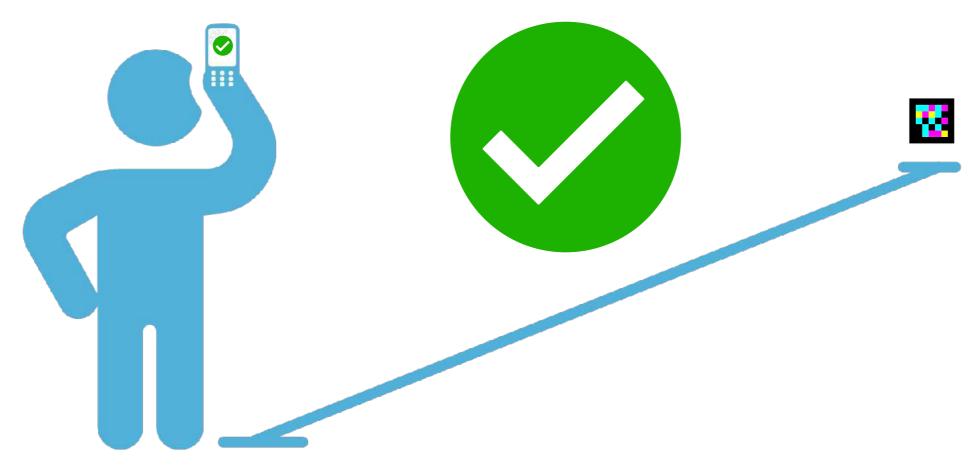


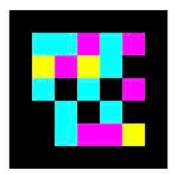






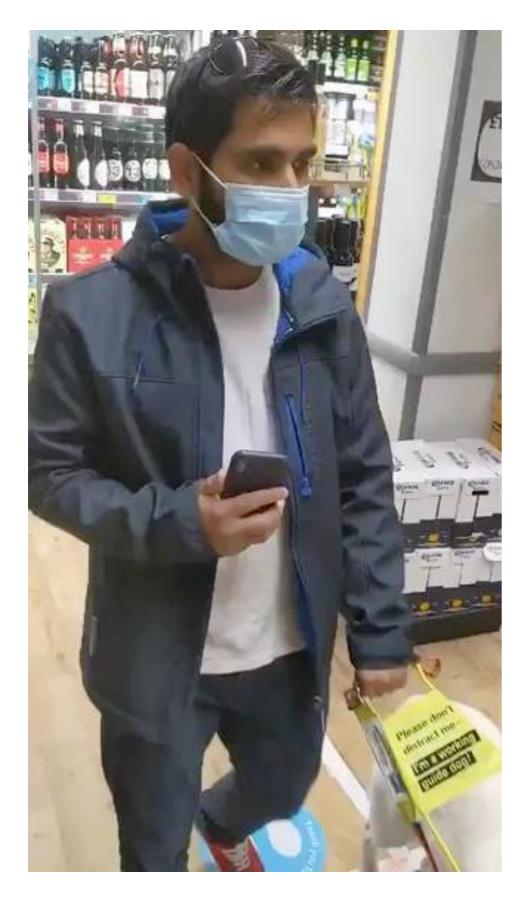
A 3cm code is scannable at 3 meters far away* And without needing to focus on it!





The NaviLens code PATENTED





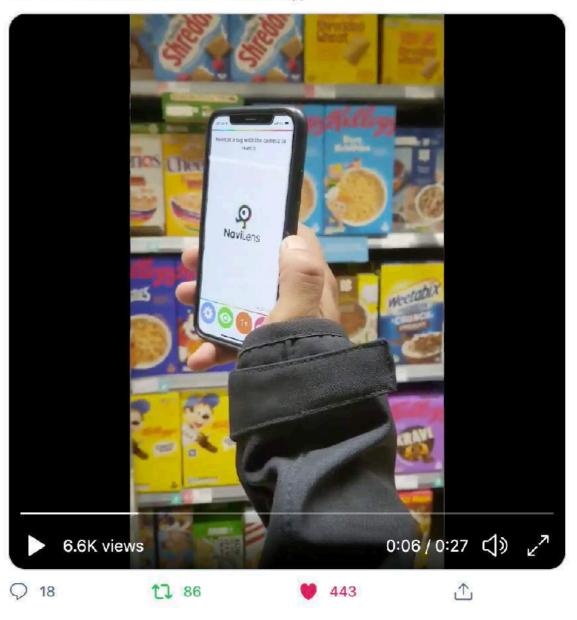


Dr Amit Patel @BlindDad_Uk · Oct 13, 2020

Popped out to my local @coopuk to grab milk & see if I could find the new @KelloggsUKI Coco Pops box with a @navilens smart code, which makes the packaging instantly accessible to VI's.

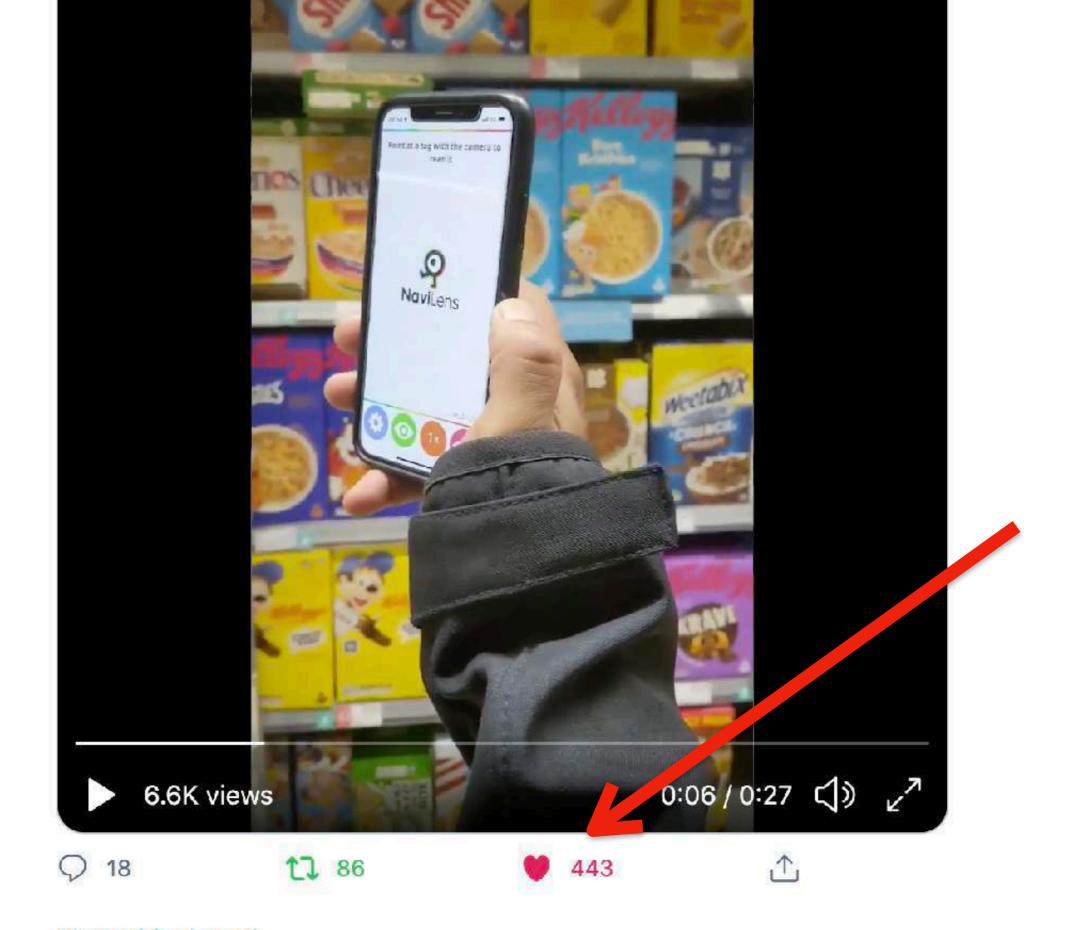
I have to say, I was super impressed, what do you think?

Well done @StVincentsL12 & @RNIB \$



Show this thread

The code can be read up 3 meters to locate where the package is https://twitter.com/BlindDad_Uk/status/1315934378695053320?s=20



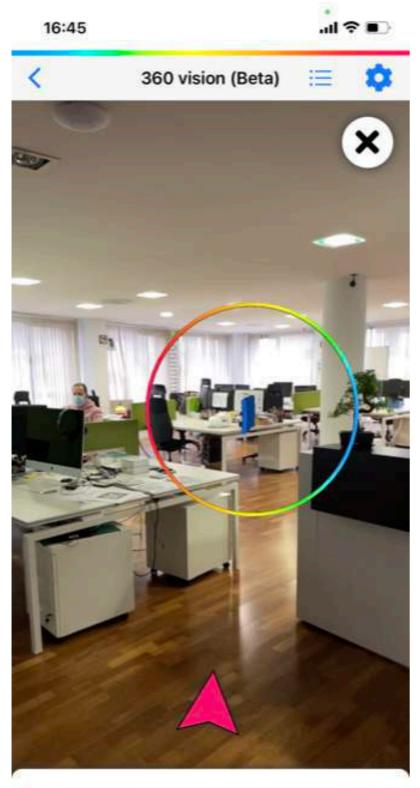






6 What next: NaviLens 360 vision feature

NaviLens 360 vision



Next step 2.50m

- NaviLens is an accessible digital signage
- NaviLens 360 = NaviLens codes +
 3D Computer Vision Positioning
- NaviLens 360 will allow cuttingedge indoors navigation functionality through the NaviLens codes
- UVPS: Ultra-Accurate Visual Positioning System

THE GOAL: TO CREATE A MORE INCLUSIVE WORLD







info@navilens.com