

Parks and Big Data: **Fostering Public Trust in Digital Systems**





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Inclusive Parks and Public Spaces







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Charles Thomas

Director/Charlotte

John S. and James L. Knight Foundation





Jacqueline Lu

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Helpful Places



Jake Moskowitz

Chief Innovation Officer

The Underline



Executive Director, Community Redevelopment Agency

City of West Palm Beach

Christopher Roog



Ryan Kurtzman

Technology Partnerships
Officer

City of Long Beach





Jacqueline Lu Helpful Places







Knight Community DTPR Program

Advance community-centric technology and data in public spaces by:

- Developing capacity for responsible technology use in public spaces through the implementation of DTPR
- Enabling learning opportunities for interested Knight communities
- Fostering replication and scaling of insights and learnings from DTPR implementations

Digital technology is increasingly embedded into how our cities work



But it can be difficult for people to understand how tech can improve outcomes, as there is little transparency on how it works, what data is collected and by whom.

This can spark community concerns about privacy and questions about governance.

Communities have always engaged in discussions of how their public spaces - and the technologies within them - work



NYC is getting new park benches that charge your phone

Written by Rebecca Fontana Tuesday May 24 2016

The benches can also count how many people visit the park by tracking your Wi-Fi usage, which totally isn't creepy or anything. The NYC Parks department is hoping to use the data to craft optimal cleaning and event schedules for the parks.

Why Are These Massive Charging Stations IN OUR BENCHES?

BY JEN CARLSON

PUBLISHED HAY 24, 2016 | MODIFIED HAY 24, 2016 | O 107 COMMENTS

ud gothamist

NYC Parks Department
Installing Phone-Tracking Smart
Benches for Pilot Program in
Highbridge Park





And tech concerns are increasingly in the news

The New Hork Times

PCWorld

How 'free' Wi-Fi hotspots can track your location even when you aren't connected

Simple steps can protect your privacy and location data.

By Dieter Holger

Staff Writer, PCWorld | NOV 1, 2018 3:00 AM PDT

Opinion | THE PRIVACY PROJECT

In Stores, Secret **Surveillance Tracks Your Every Move**

As you shop, "beacons" are watching you, using hidden technology in your

By Michael Kwet

Graphics by Tala Schlossberg Illustrations by Max Guther

Mayor orders San Diego's Smart Streetlights turned off until surveillance ordinance in place

Police used them to solve violent crimes, but activists raised civil liberties concerns

BY TERI FIGUEROA SEPT. 9, 2020 7:49 PM PT

The San Diego Union-Tribune





NURPHOTO / GETTY IMAGES

MOTHERBOARD

The 'Capital of Silicon Valley' Is **Ignoring Its Privacy Experts**

San José created a privacy taskforce to keep 'smart city' technology in check. Then its members started resigning.



By Ethan Gregory Dodge

May 27, 2022, 9:00am



Businessweek Technology

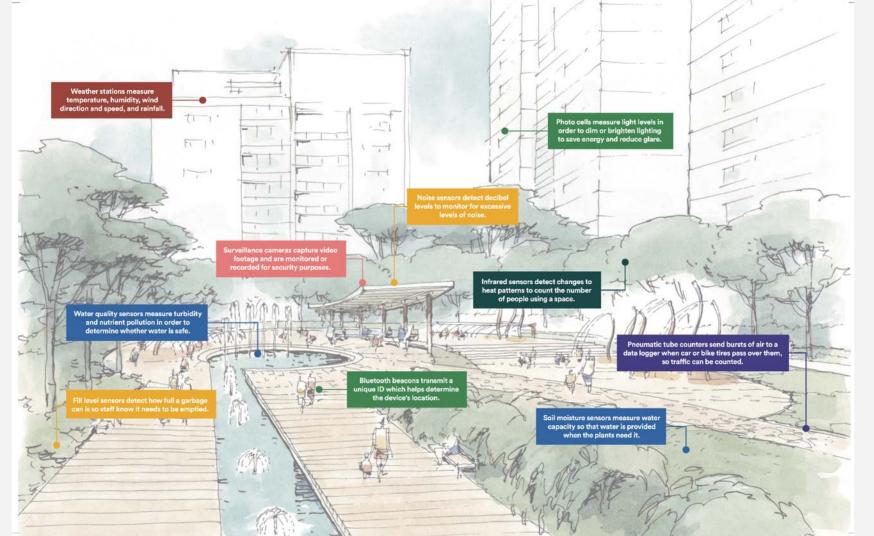
Scooter Rides Have Turned Into a Data **Privacy Issue for Cities**

The legacy of ride-hailing services has led to infighting at a consortium that tracks mobility data. Austin was the first to drop out of the effort.

By Laura Bliss

November 10, 2021 at 4:00 AM EST



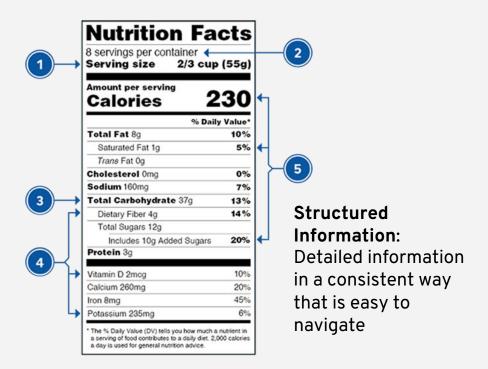


Visual languages and structured information help democratize complex concepts





Visual Languages: Conveys critical information and complex concepts



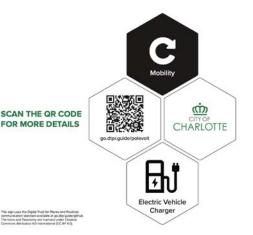


Cleaner Transport for Cleaner Air in Belmont

Free electric vehicle charging is coming here soon!

Join us at the launch event to learn more:

SATURDAY, SEPTEMBER 23 10AM - 2PM INNOVATION BARN (932 SEIGLE AVE)









River Room

DTPR is hosted here by Friends of The Underline



hello@theunderline.org

The River Room offers a unique vantage point to views of the Miami River and includes butterfly gardens and a dog-friendly area, and much needed meditative, open, green space for residents and their pets.

As we roll out smart technologies to help provide great public spaces and experiences, we want to involve the community in the process.

That's why we're piloting <u>Digital Trust for Places</u> and <u>Routines (DTPR)</u> – a communication standard to inform and engage people about technologies in public spaces. This includes providing information about what data the technology is collecting, who's collecting it, and what the data is being used for.

Below, you can see a list of both deployed and planned technologies for the River Room. Click on any of them to learn more and submit any feedback, questions, or concerns you might have.

The **Underline**



DTPR is increasingly recognized as a transparency tool for urban tech

ACT NO

PREPA

LEARN AND WATCH

THE FUTURE OF PLANNING

gy to

manage commercial agreements and contracts for street and municipal infrastructure and services (see Blockchain, Crypto, and NFTs).

Decreasing digital trust

In 2022, ISACA found that only 54 percent of people in the U.S. trust technology companies to act ethically, down 19 points since 2019. On the other hand, McKinsey found that 70 percent of consumers have at least a moderate degree of confidence in companies they choose to do business with protect ing their data-despite the reality that the mitigation of risks by most organizations are unimpressive. There is a mismatch between people's understanding as well as their daily interactions with surveillance and AI technology and the level of security of digital infrastructure that

Public distrust of all things digital is an underexplored dilemma in planning, especially considering the

INSIGHT FROM OUR TREND SCOUTS

"My biggest concern is that I see science and technology speeding ahead, digitalization solutions speeding ahead, but I don't see our governance and planning being able to move at that speed."

-Bill Cesanek, AICP, Water & Planning Network

continued digitalization of everything. Trust is a collective emotion and there is a power imbalance between providers and users in the digital world. Digital trust describes the relationship between the users (those who give trust, like consumers ers and residents) and the providers (those who guarantee to uphold protection, like businesses and governments).

Digital technologies and



Cities around the world are testing new technologies in ways that prioritize public vibibility and participation. This sign in Boston uses the Digital Trust for Places and Routines (DTPR) standard to increase transparency and enable resident feedback for sensors measuring how a street reconstruction project will affect air quality in an underserved community. Photo courtesy City of Boston-Helpful Places.

digitalization have been characterized as increasingly volatile, uncertain, complex, and ambiguous (in short, "VUCA"). Meanwhile, governments are investing more than ever in internet-connection technologies (like sensors) to improve parking, streetlights, and other public services. But installation of cityowned surveillance tools in public spaces—and more private access to surveillance tools (see Political Shifts in Safety and Security)—is problematic within the context of low digital trust. Digital trust and designing public spaces in the digital age will go hand in hand.

Cities such as Washington, D.C., and Boston are piloting transparency standards (Digital Trust for Places and Routines, or DTPR) to build trust in their increasingly digitally equipped public spaces. This includes placing visual markers and providing scannable codes that inform the public of nearby technology such as sensors and cameras. Planners are simultaneously being charged with restoring community trust, experiencing the effects of low public trust in local government, and responding to digitalization (in some cases, promoting digitalization). To improve planning, these disparate efforts need to be merged.

Solving the digital divide Over the past year, increased awareness of the impacts of the "Making the public aware of nearby technology and its purpose is the first step to getting people involved, allowing them to provide feedback, and making them feel like they have the power to cocreate the smart city."

DTPR highlighted in the American Planning Association's <u>2023 Trend</u> <u>Report for Planners</u>

16 | 2023 Trend Report | APA | Lincoln Institute of Land Policy



Jake Moskowitz The Underline







and last mile and neighborhood connections, safety, mobility, public health, resiliency, and innovation.

Solve Problems

Safety/Mobility

Multi-modal solution connecting to mass transit

Health/Wellness

Improve safe access to active transportation and recreation

Resiliency

120 acres of green space, microforests, pollinators and stormwater mitigation

Connectivity

10 miles Downtown to Dadeland, 250,000 residents, 14,000 businesses

Diversity/Inclusivity

Serving persons of all abilities and access

Innovation

Technology integration. 18 student and small business startups. Project will generate over \$3 Billion in economic activity



Innovation on The Underline

Capacity Building:

Tech Master Plan Advisory Council Underline Staff

Foundational Operational Experiential

Categories:

Facilities & Maintenance Interactive & Immersive Health & Wellness Climate & Sustainability Mobility & Safety Nature-Based Revenue Generation



Current Examples



Public Wifi



Computer Vision



Digital Bulletin



Interactive Screens



Digital Twin



LiDAR Scanning



Envm Sensors



Delivery Bots







Solar Benches



BikeShare

On The Horizon



Linear Lab Deployments



Interactive Experiences



Economic Development



Startup Accelerator



Extended Reality Applications

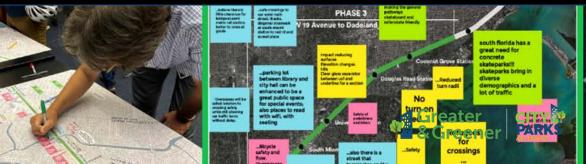


Community Co-creation



Community Meetings Digital Surveying

Neighborhood Ambassadors User Engagement Group DTPR Linear Lab







A living lab, testing ground, community engagement hub and deployment sandbox in partnership with Northeastern University, the University of Miami, local private companies, community engagement organizations, and national outreach partners. The Lab's targeted focus on climate, sustainable mobility, first-mile/last-mile, and energy will enhance the community's ability to address Miami's largest local issues.







MOBILITY

In coordination with the community, we can test, iterate and scale these new technologies county-wide.



The Underline Linear Lab includes:

o

User Engagement & Testing Group

Committed local volunteers and visitors, with testing policies and guidelines at The Underline.



Digital Engagement Tools

Digital engagement tools and feedback (ex: survey tools, platforms, crowd analytics, sensors, etc.)



Physical Space

Leveraging The Underline's 10 mile park with dedicated spaces for deployments.



Dedicated Staff

The Underline will expand to oversee and manage the day-to-day operations of the Lab.





Christopher Roog City of West Palm Beach





WHO ARE WE?

Local government agency fostering redevelopment within CRA Districts within West Palm Beach.

Collaboration:

Residents, property owners, businesses, developers, community organizations

Achievements:

- Nationally Recognized: Among the most innovative and effective CRAs in the State of Florida
- Setting the Standard: Leading in redevelopment practices

Vision:

Redefining community redevelopment through collaboration and innovation



TECHNOLOGY + DATA



Core to our strategy for managing public spaces

- Helping with:
 - How spaces are being used and what people want to see
 - Maintenance
 - Sustainability
 - Better programming
- Building public open spaces that people want to be in
- Using public spaces as test beds layering a level of tech that is sensitive to people's privacy

Community Redevelopment Agency

CENTER FOR SMART STREETSCAPES

Innovation built through partnerships to improve life on the streetscape for all.

The mission of the Center for Smart Streetscapes (CS3) is to forge livable, safe, and inclusive communities.







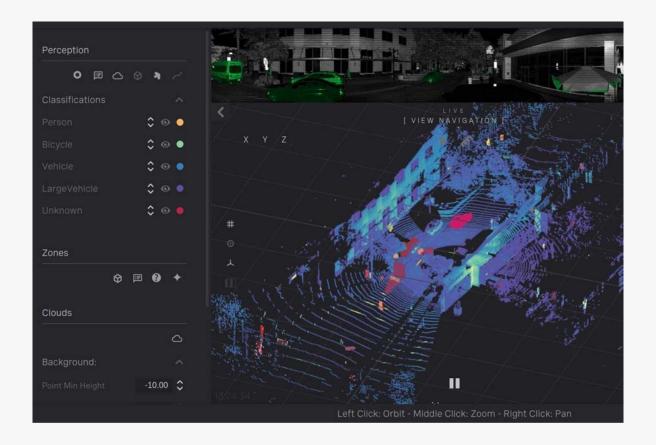


CAMERAS FOR PARK SAFETY + SECURITY HEART AND SOUL PARK | WEST PALM BEACH



SENSORS ANALYZING HOW PEOPLE MOVE CLEMATIS STREET | WEST PALM BEACH

THE TECHNOLOGY





THE TECHNOLOGY

FAU

Real-Time LiDAR Object Tracking



ARE YOU WORKING FOR YOUR COMMUNITY? OR ARE YOU WORKING WITH YOUR COMMUNITY?



COMMUNITY INPUT



BUILDING TRUST

- Working with communities that have a historic distrust of government
 - Quarterly meetings with Historic Northwest District
 - Taking notes on community concerns to respond to at the next meeting
 - E.g., why are rides for on-demand service getting dropped?











THANK YOU!

Christopher Roog Executive Director City of West Palm Beach Community Redevelopment Agency

- **PHONE** 561-822-1416
- **EMAIL** croog@wpb.org
- **ADDRESS** 401 Clematis St. West Palm Beach, FL 33401
- **WEBSITE** wpb.org/cra





Ryan Kurtzman City of Long Beach





How it started



TRANSPARENCY

... will be <u>publicly transparent</u> and accountable in its collection and management practices of personal data...

ACCOUNTABILITY

... will work to provide participatory <u>feedback channels</u> for residents to... exercise privacy complaints, and ensure the City is held accountable

DIGITAL EQUITY

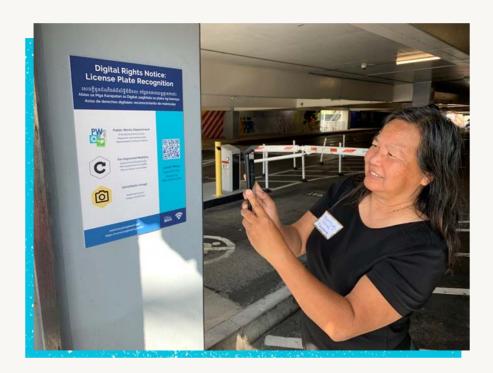
... will examine the burdens and benefits of data collection...

DATA STEWARDSHIP

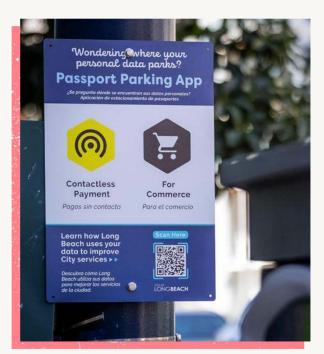
... will work to ensure residents can access and correct their personal data...



Adopting DTPR

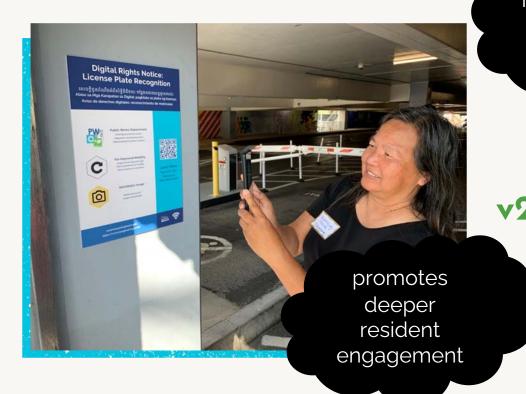


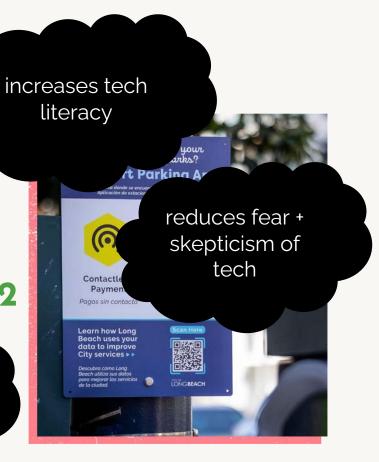






Adopting DTPR









Building trust + reducing misinformation

	<u>Before</u>	Post LB Co-Lab
Trust: "I feel like my input is taken into account in how the City of Long Beach develops new technology" (% Agree or Strongly agree)	47.3%	95.2%
Responsiveness: "I feel like the technologies implemented by the City of Long Beach have improved my community"	63.9%	85.7%

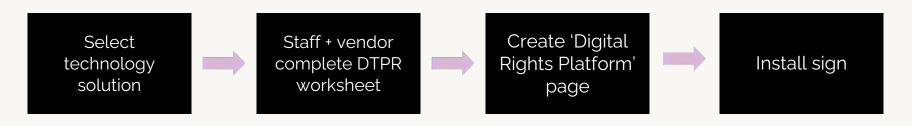
Bringing it full circle in North Long Beach

LB Co-Lab challenge

Neighborhood residents are seeking a solution to promote pedestrian safety, propel park utilization, enhance evening visibility, and encourage positive experiences at Houghton Park.

Selected solution

Smart lighting to improve brightness and energy efficiency and monitor footfall and air quality



Bringing it full circle in North Long Beach













Panel Discussion









Submit Your Questions

go.dtpr.guide/panel







Thank You!









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