

Incorporating Wide Area Exposure Simulation in Field Exercises

Dr. Cesar Bandera, Dr. Peter Schmitt: Founding Partners, Cell Podium
Dr. Mitchel Rosen: Director, Rutgers Center for Public Health Workforce Dev.
Justin Schuller: Instructor, Ivy Tech, Indianapolis

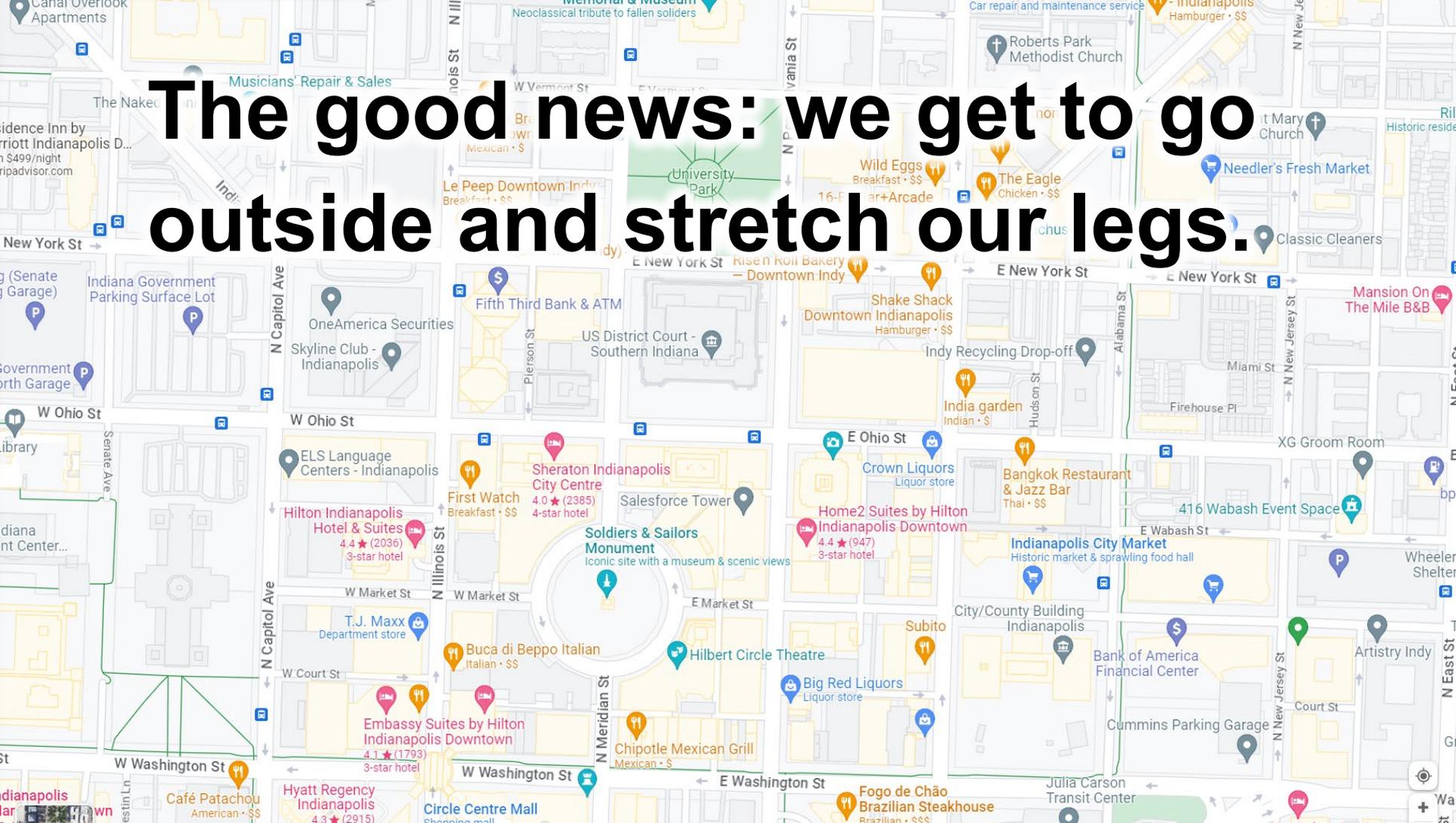
2023 National Trainers' Exchange, Indianapolis, Indiana
TRX Workshop #77, Thursday, May 4, 2023, 9:30 AM

NIOSH Award: 1R44OH012129-01

RUTGERS
School of Public Health



IVY TECH
COMMUNITY COLLEGE



The good news: we get to go outside and stretch our legs.

Hilton Indianapolis
Hotel & Suites
4.4 ★ (2036)
3-star hotel

Sheraton Indianapolis
City Centre
4.0 ★ (2385)
4-star hotel

Embassy Suites by Hilton
Indianapolis Downtown
4.1 ★ (1793)
3-star hotel

Home2 Suites by Hilton
Indianapolis Downtown
4.4 ★ (947)
3-star hotel

Hyatt Regency
Indianapolis
4.3 ★ (2915)

Fogo de Chão
Brazilian Steakhouse
Brazilian • \$\$\$



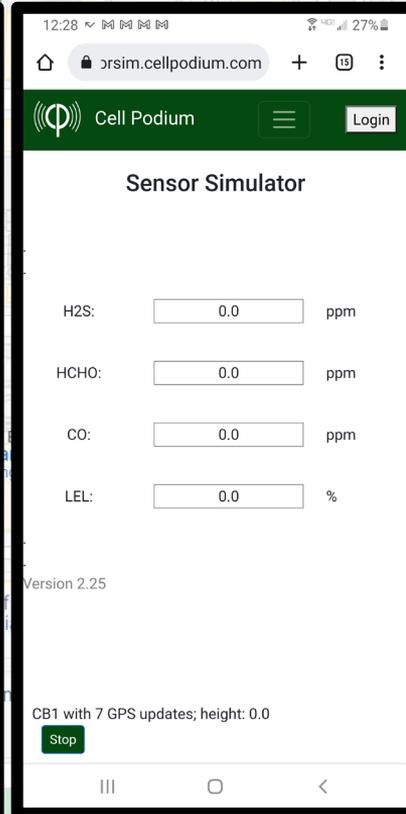
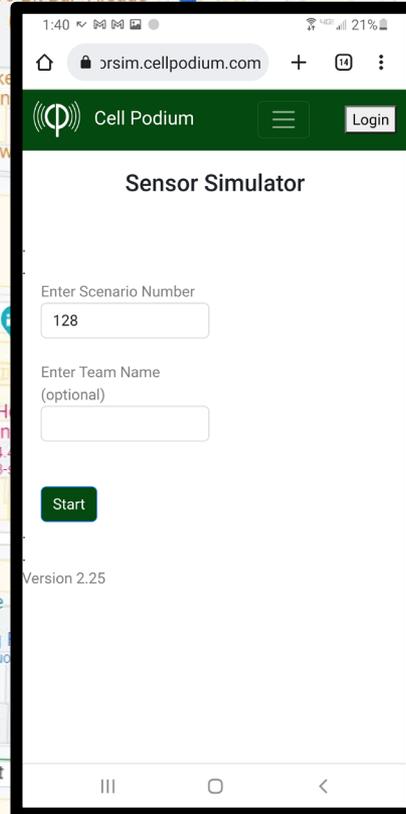
**The good news: we get to go
outside and stretch our legs.**

**The bad news: H₂S₂ spilled two
blocks from the hotel, and
we have to mark the hot zone.**

1. Break into four teams (North, South, East, West)
2. Direct your phone's browser to your team's URL (QR)
3. Go outside. Use cell phone to measure exposure (with alarm), and denote the hot zone
4. Report back by 10:15

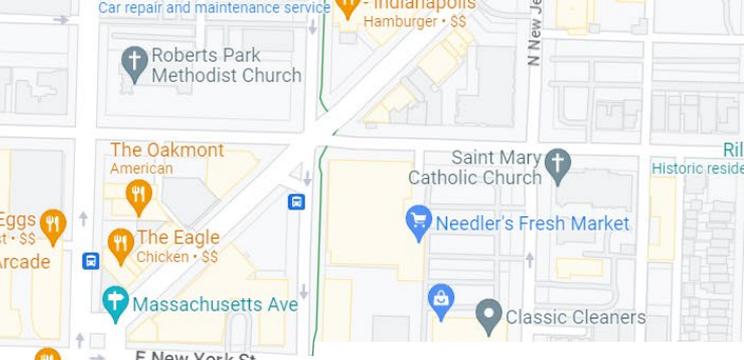


(Assume we are all wearing Level A PPE)

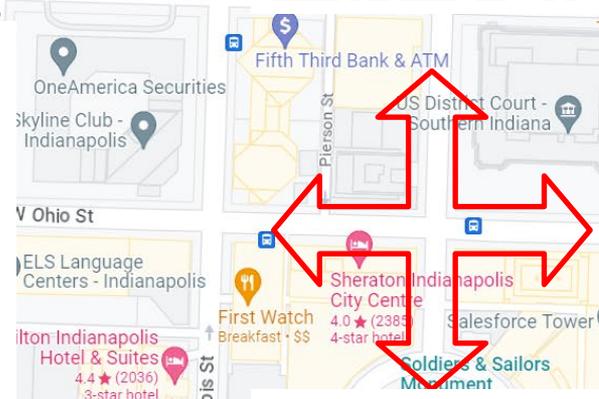




128



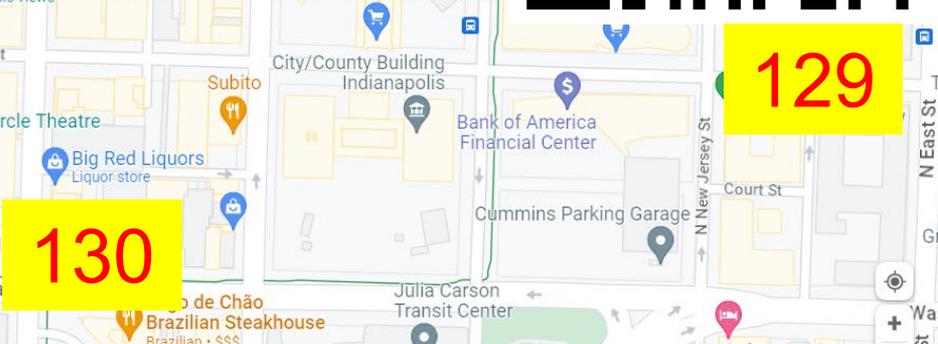
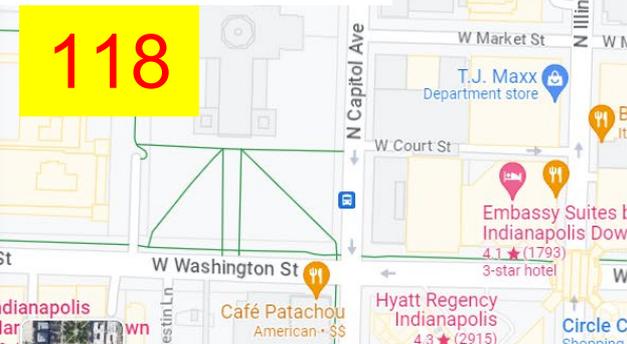
118



130

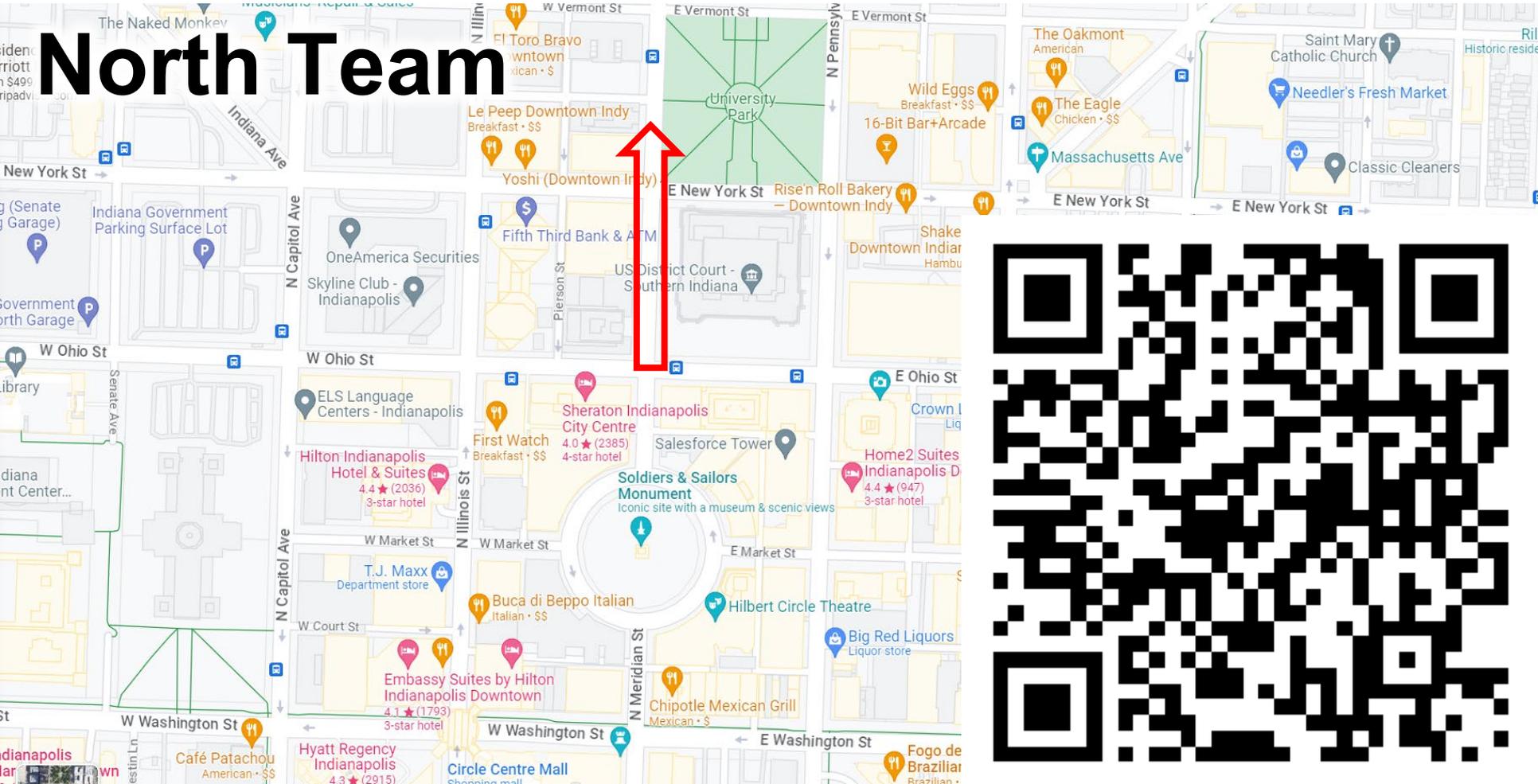


129



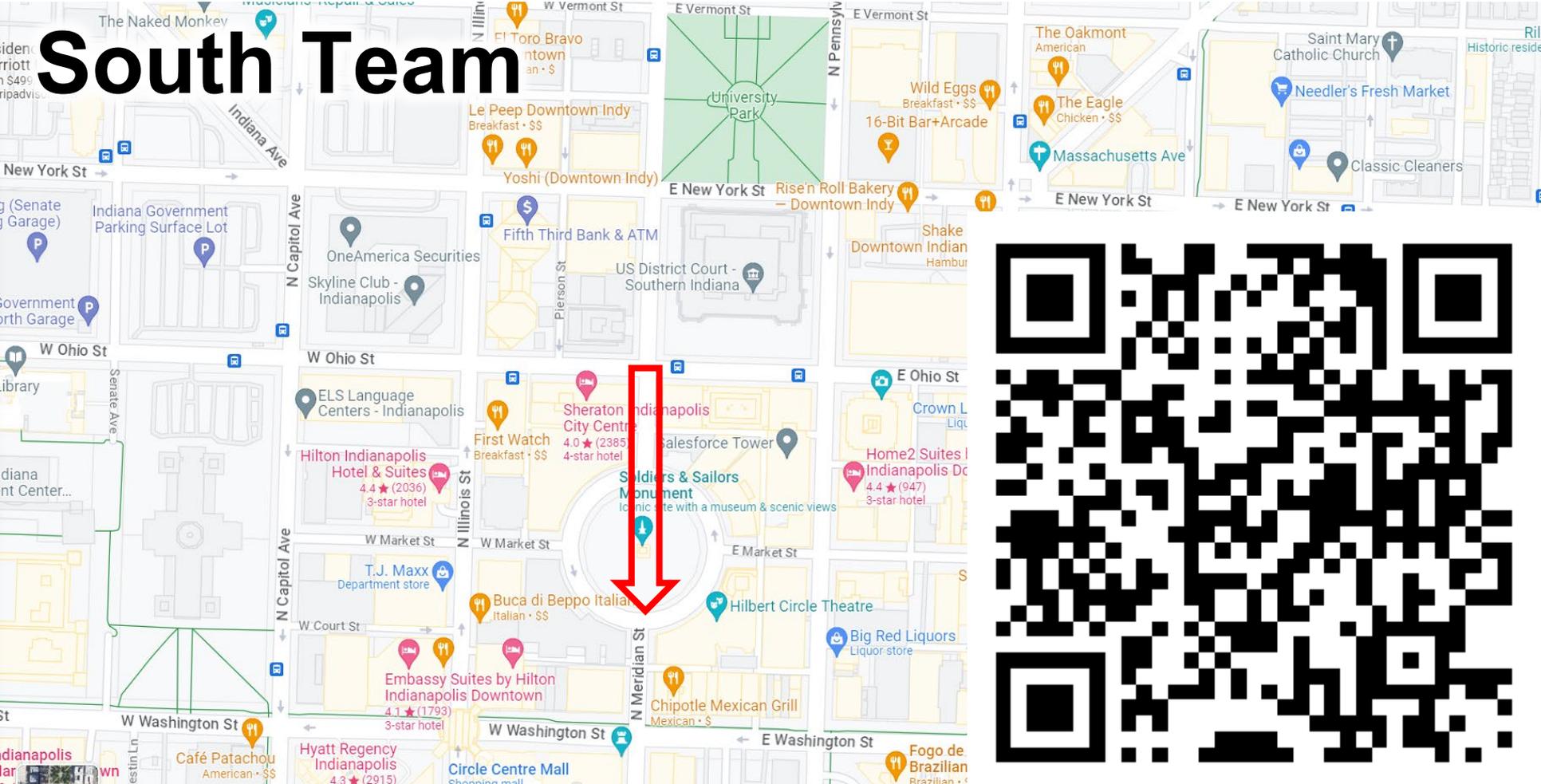
<https://sensorsim.cellpodium.com/#/simulation?id=128>

North Team



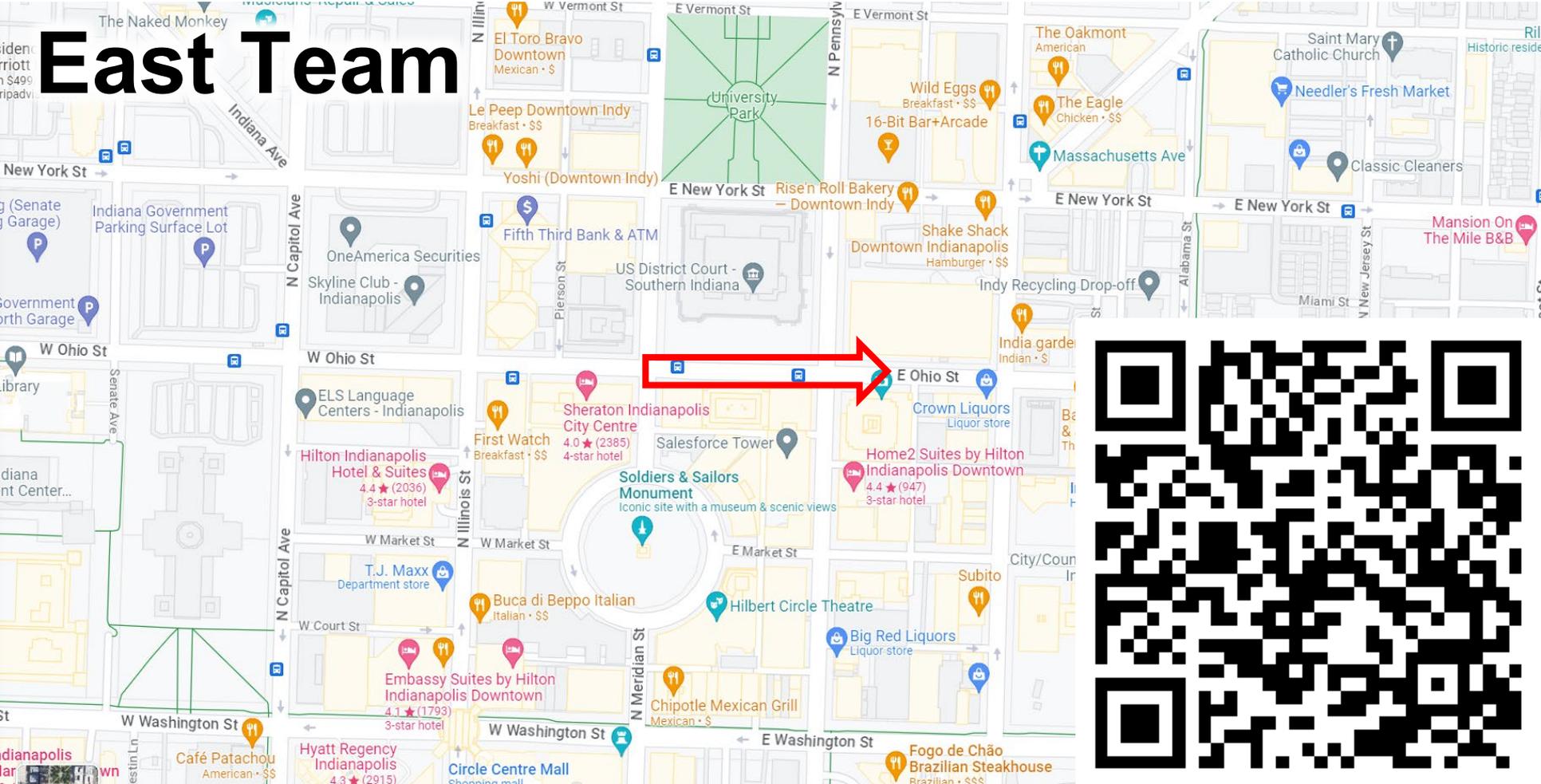
<https://sensorsim.cellpodium.com/#/simulation?id=130>

South Team



<https://sensorsim.cellpodium.com/#/simulation?id=129>

East Team



A map of downtown Indianapolis, Indiana, showing streets and various landmarks. A green shaded area, representing an exposure plume, is centered around the Soldiers & Sailors Monument and extends north-south along E New York St and E Vermont St. Several red lines with arrows indicate paths taken, starting from the bottom left and moving towards the center and north. The text is overlaid in large, bold, red letters with a yellow glow.

See you back here at 10:15 to

**1. See the “actual” exposure plume
and the paths you took**

**2. Tell us how you would use this
in your training**

Edit Scenario (Id:118)

Name: Organization: Scenario Version:

GPS Beacon

Save

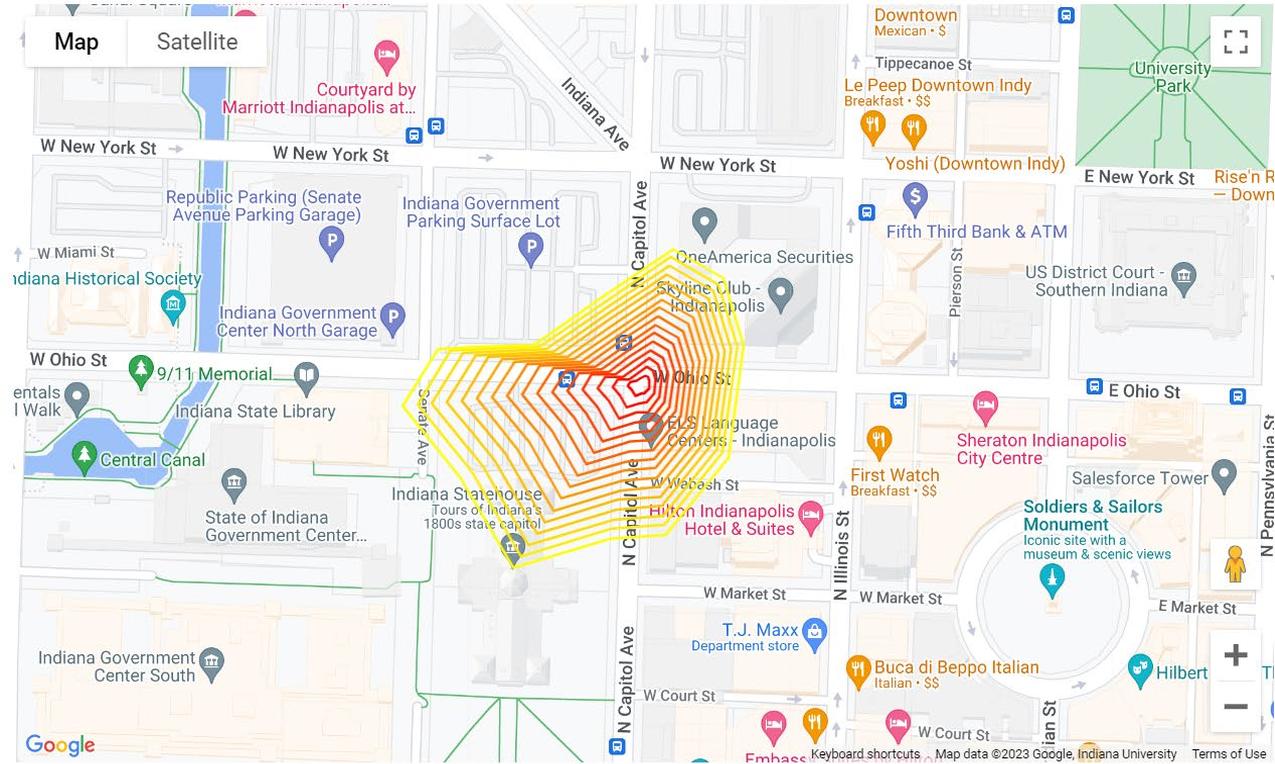
[Scenario Edit Help](#)

- Description
- Hazard Geometry
- Sensors
- QR Code
- Exercise Log

Center coordinates of layout:
 Longitude: -86.16153, Latitude: 39.76995

[Instructions](#)

Select an Action



What can we do to make SensorSim part of YOUR training?

Free SensorSim account until July 2024

Cesar Bandera
Peter Schmitt

cesar.bandera@cellpodium.com
peter.schmitt@cellpodium.com
973-718-2450

RUTGERS

School of Public Health



IVY TECH
COMMUNITY COLLEGE

Information on Hydrogen Disulfide

- Shipped as compressed, liquefied gas
- Upon contact with water or alcohols, hydrogen disulfide readily decomposes under ambient conditions to hydrogen sulfide and elemental sulfur
- See table below for from 2020 Emergency Response Guidebook

ID #	Guide	Name of Material	SMALL SPILLS (From a small package or small leak from a large package)			LARGE SPILLS (From a large package or from many small packages)		
			First ISOLATE in all Directions Meters (Feet)	Then PROTECT persons Downwind during		First ISOLATE in all Directions Meters (Feet)	Then PROTECT persons Downwind during	
				DAY Kilometers (Miles)	NIGHT Kilometers (Miles)		DAY Kilometers (Miles)	NIGHT Kilometers (Miles)
1053	117	Hydrogen sulfide	30 m (100 ft)	0.1 km (0.1 mi)	0.5 km (0.3 mi)	400 m (1250 ft)	2.2 km (1.4 mi)	6.3 km (3.9 mi)

IOS

You can prevent an iOS phone from automatically getting dark by disabling its Auto-Lock feature:

1. Open the Settings app on your iPhone.
2. Tap on "Display & Brightness."
3. Tap on "Auto-Lock."
4. Select "Never" from the list of options.

Turn Auto-Lock back on when you're finished with the exercise to conserve your battery life.