Context DIVEN Access & Mobility for All Users

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Context

FALL 2019

It's Time

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As Administrator, one of my greatest concerns is pedestrian safety and reducing the number of pedestrian fatalities that occur on our roadway network each year. In 2018, pedestrian fatalities on MDOT SHA facilities increased over the previous year, continuing nationwide trends that date back to 2015. One death is one too many, and I am personally affected by every incident that occurs on the roadways we manage. While we cannot discount the roles of education and enforcement, there is always more that we can do as transportation practitioners. Nowhere is this truer than in our urban cores. Urban cores are one of MDOT SHA's six identified context zones, and they are areas that often serve the dual functions of accommodating both regional vehicle traffic and high volumes of pedestrian activity. This combination means that our state's urban cores account for a disproportionate number of pedestrian crashes.

The issue of pedestrian safety requires bold action. The status quo is no longer acceptable. I have empowered our MDOT SHA team to not only use nationwide best practices but to innovate and propose new solutions that ensure we are leaders in the industry. The data-driven approach outlined in this document represents an organizational shift to better respond to this context-based need. This new approach will ensure that our customers can make it to school, commute to work, and, most importantly, arrive safely at home each day.

Gregory Slater

Our Commitment to Maryland



Roadmap







People **Driven**Data **Driven**Context **Driven**





- Exploring Your Context
- Next Steps





PeopleDriven

Our Commitment to a Safer Maryland Means Thinking Differently



People Going Places



Data Driven

Defining Maryland's Context Zones











We Realized

A traditional design approach relies on the Federal designation of **Urban vs. rural** as the primary context for proposed solutions.

This binary approach does not account for the **unique characteristics of different areas** that ultimately affect the roadway design and resulting safety.



Context Driven

Defining Context in Maryland



The Way People Move Is Driven by the Context They Are In



Maryland Context Zones





Maryland Context Zones







MDOT SHA Traditional Suburban Urban Core **Urban** Center Suburban Rural Town Center Activity Center **Context Zones** How far can

Balancing Access & Mobility

How many places can you get to?



you go?

MDOT SHA Context Zones

The transportation challenges we are facing cannot be addressed with the current classification system and corresponding toolkit.

We need new techniques and solutions to achieve safety, accessibility, and mobility goals framed by the surrounding land-use.



Context Driven

Exploring the Context Guide



An Evolving Resource

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Guide with Context Profiles

- Toolbox of Treatments
- Library of Case Studies



frontage, and minimal building gaps. Off-street parking is than one tenth of one percent of the land area in the State.

Considered the typical downtown or central business typically included. Because of its development density and district area, the Urban Core zone is defined by a high diversity of uses, this land-use pattern generates a high diversity of uses, including multi-family residential, office, prevalence of non-motorized trips, including walking, transit, retail, entertainment, civic, and cultural facilities, as well as and bicycling. While the need for mobility through these a high density of development. Development includes areas does exist, it is far exceeded by the need for internal high-rise structures with minimal setbacks, high street wall disculation within the zone. The Urban Core represents less



Guide **Components**



DATA-DRIVEN TRANSFORMATIONS





Considered the typical downtown or central business district area, the Urban Core zone is defined by a high diversity of uses, including multi-family residential, office, prevalence of non-motorized trips, including walking, transit, retail, entertainment, civic, and cultural facilities, as well as and bicycling. While the need for mobility through these a high density of development. Development includes areas does exist, it is far exceeded by the need for internal high-rise structures with minimal setbacks, high street wall circulation within the zone. The Urban Core represents less frontage, and minimal building gaps. Off-street parking is than one tenth of one percent of the land area in the State.

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Guide **Components**



DATA-DRIVEN TRANSFORMATIONS





Typical Characteristics

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DATA-DRIVEN TRANSFORMATIONS





Representative Communities

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Guide **Components**



DATA-DRIVEN TRANSFORMATIONS





5 Data-Driven Transformations

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Guide **Components**



DATA-DRIVEN TRANSFORMATIONS





Context Access & Mobility Diagram

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Guide **Components**



DATA-DRIVEN TRANSFORMATIONS







Next Steps

Continually Supporting Innovative Solutions



CREATING GUIDANCE for today's TRANSPORTATION CHALLENGES

Updated Best Practices

Case Studies

Implementation of Lessons Learned

Stakeholder Feedback

"Living" Context Guide







- Up-to-date tools based on current community feedback
- Proven solutions rooted in the surrounding context
- Flexibility to encourage innovation and community-specific solutions



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Our Commitment

Creating a...

✓ SAFE ✓ HIGH QUALITY

VEFFICIENT

...system for all Marylanders.



THANK YOU!



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Questions?