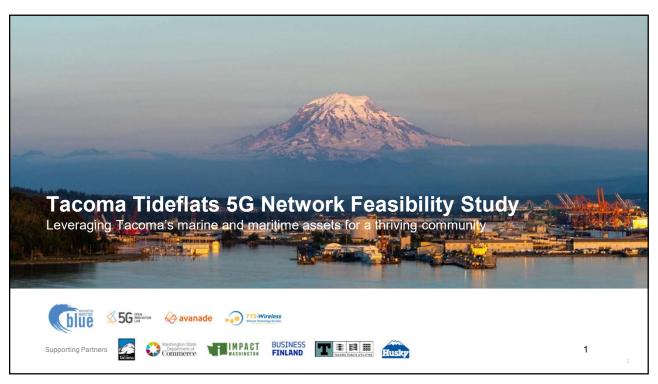


5G Private Network for the Tideflats

City of Tacoma | Community & Economic Development

Economic Development Committee January 25, 2022 ITEM # 2

1



Project Overview



Key goals of the study:





- Engage core stakeholders
- · Identify near-term priorities
- · Create a relevant use case roadmap
- · Create a Private 5G infrastructure strategy
- Explore potential community impact



5G Network Planning



- > 1:1 Interviews: 19 individual stakeholders
- Public Workshops: 160 ideas, including Husky Terminal workshop ideas prioritized and vetted with Key Technical Providers
- Partner with 5G Open Innovation Lab and leverage deep connections around the globe
- Avanade utilized Design Thinking and our expertise to focus on Human Factors and Innovation
- Maintain the commitment of Washington Maritime Blue toward an equitable and sustainable future for thriving communities in the Blue Economy
- Amdocs/TTS Wireless completed network capacity planning using a visual topography of the Tideflats to model the 160 use cases

2



3





To realize the value of the network requires business outcomes that support the Tideflats economic development



Dustin Stoker President, Husky Terminal and Stevedoring, LLC

Husky Terminal and Stevedoring has been a committed partner throughout the feasibility study

Husky has planned to make investments for building out key business use cases that reside on top of a private network recommended in the feasibility study

The innovation comes on top of the network once the foundation is put in place

4

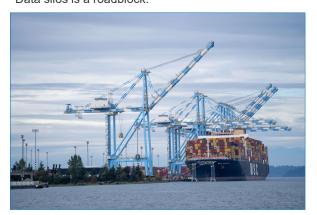
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Findings

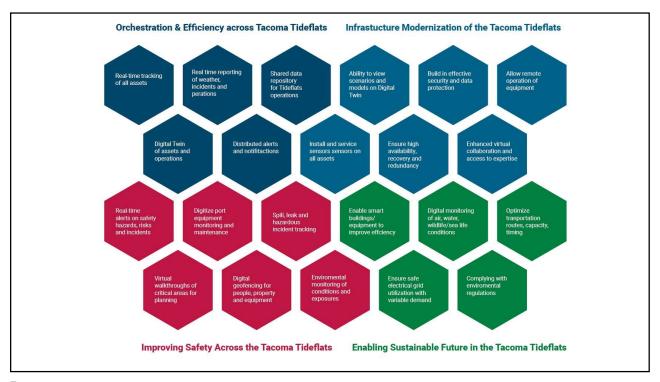
Four key themes with 22 high value scenarios for port infrastructure, freight movement, supply chain:

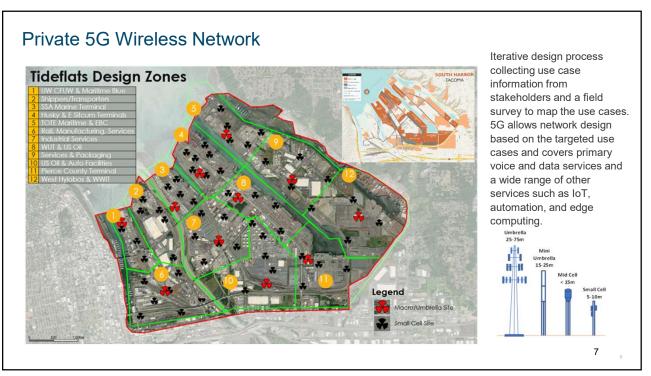
- · Orchestration and Efficiency: create efficiency and transparency offering an end-to-end view of the supply chain.
- · Infrastructure Modernization: physically and virtually improve where equipment is moved and stored, traffic, connectivity dead zones, siloed data, manual processes and cybersecurity.
- · Improving Safety Across the Tacoma Tideflats:
- · Enabling a Sustainable Future: put ecological and community health at the forefront.

Desire for ecosystem data sharing across trucking, rails, ships, and the environment. Data silos is a roadblock.



5







Next Steps

Pilot a private 5G network for Proof of Concept

- Center for Urban Waters & 5G Open Innovation Lab for Ports
- 2. Husky Terminal
- 3. Other interested port operator or manufacturer

Through knowledge sharing, collaborative project development, and enabling an ecosystem for innovation, the Tacoma Tideflats will collectively realize a shared vision for a sustainable and equitable economy and port community.

8

9





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