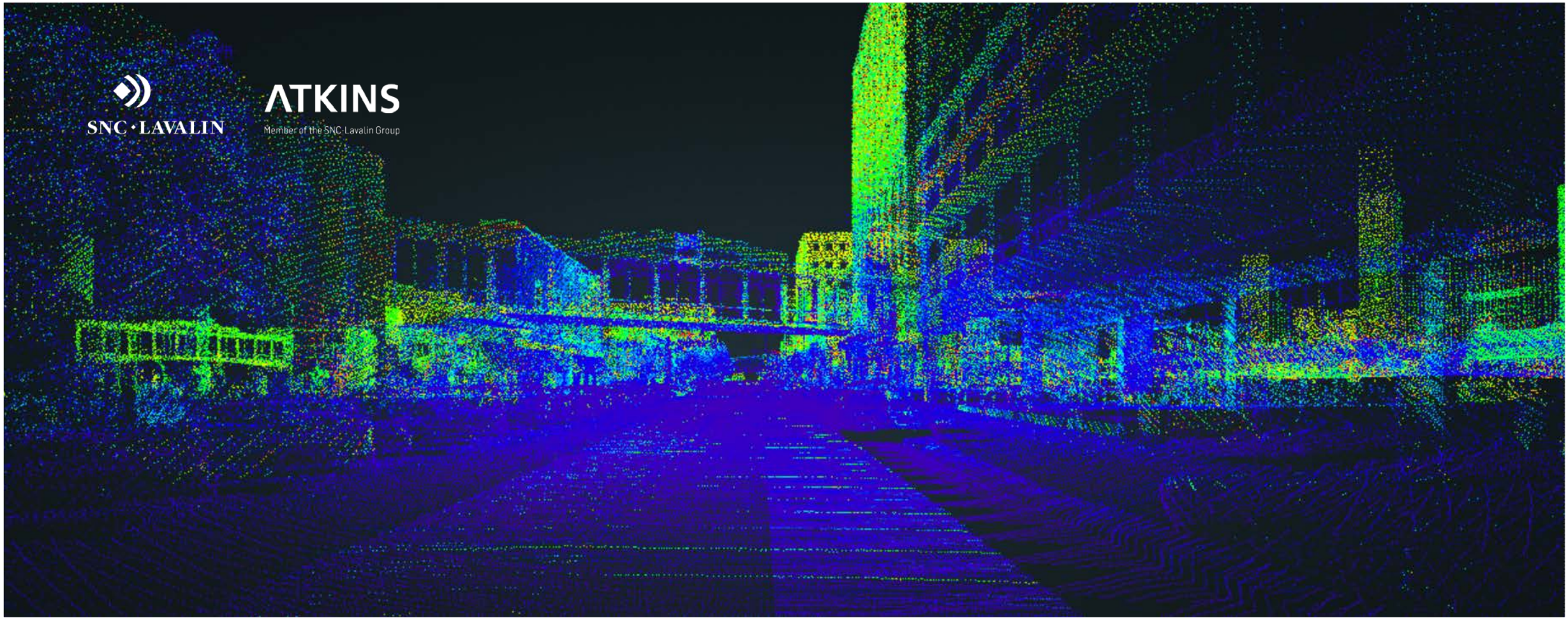




ATKINS
Member of the SNC-Lavalin Group



Planning for Emerging Technologies in Transportation

NCAMPO, 25 April 2019





Intelligent Mobility

A new way of thinking about how to use technology and data to connect people, places, goods, and services and to reimagine infrastructure across all modes of transportation.

What is the future of transportation?



What technology and applications should my agency invest in?



What do we need to do to be ready for connected and automated vehicles?



How can we take advantage of emerging technologies to help enable mobility in our community?

An aerial photograph of a city, likely Los Angeles, showing a complex network of highways, industrial zones with smokestacks, and residential areas. The image is used as a background for a presentation slide.

Thoughtful

Flexible

Actionable

Thoughtful




Not all solutions
match every
scenario





Thoughtful

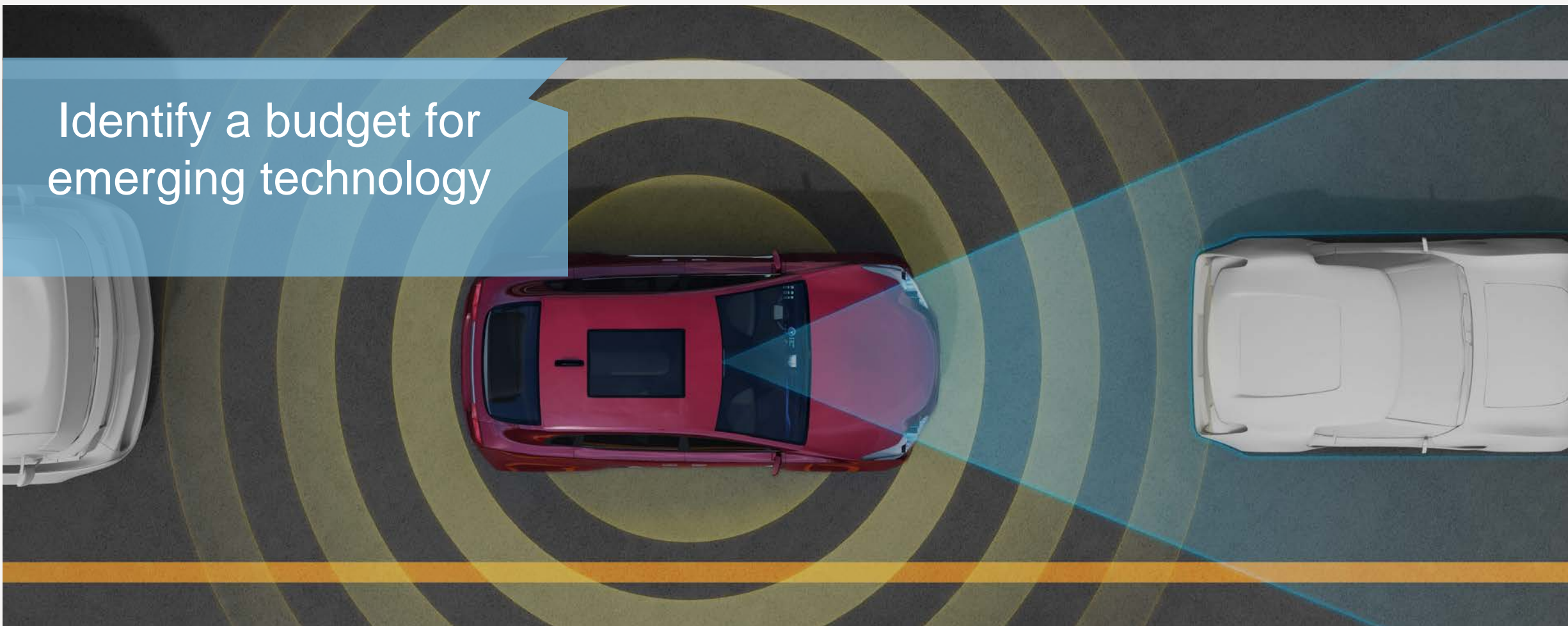


Start by
identifying needs



Thoughtful

Identify a budget for
emerging technology

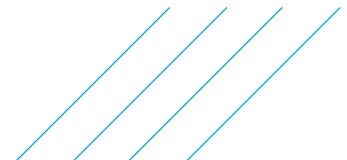


Flexible



Flexible

Provide a solid
foundation to stand
up new technology





Flexible

Re-imagine
technology that is
currently available



Flexible

Reconsider how
ideas are vetted
and projects are
initiated

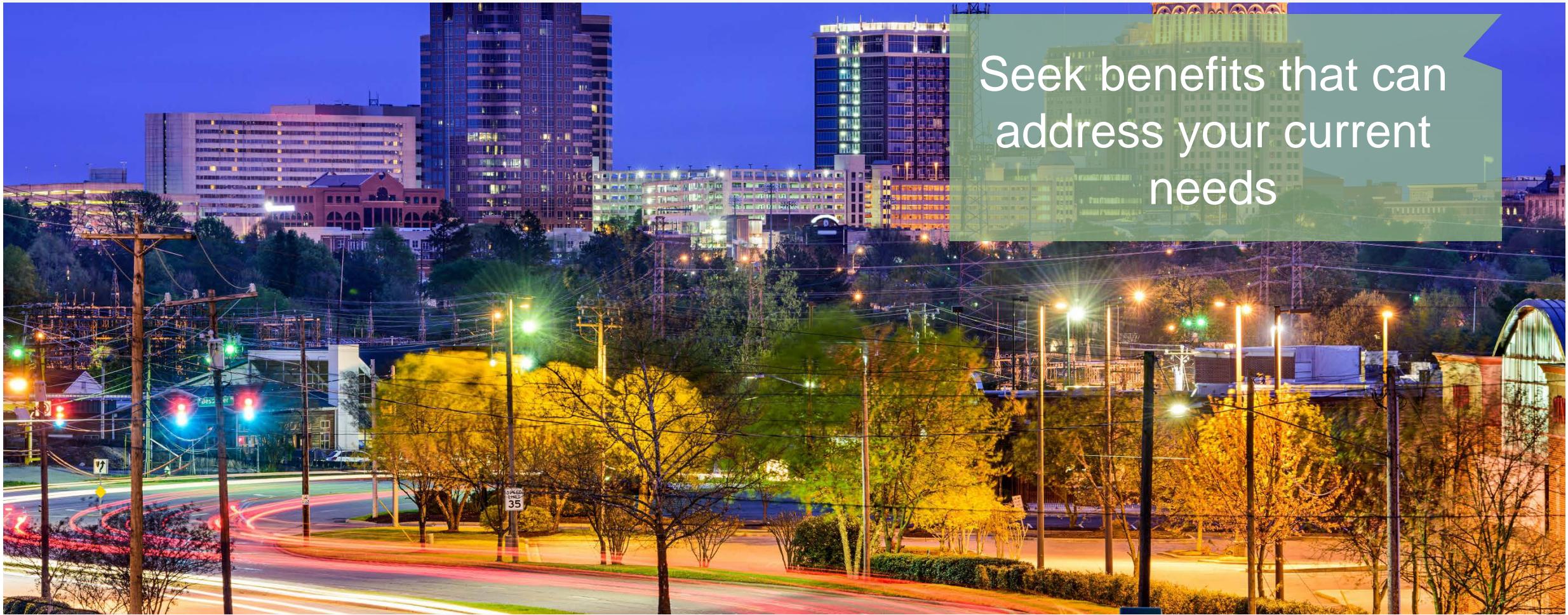
Actionable

Get started with a
scalable approach.



Actionable

Seek benefits that can
address your current
needs





Planning Approach

State of the Practice

Where are we today?

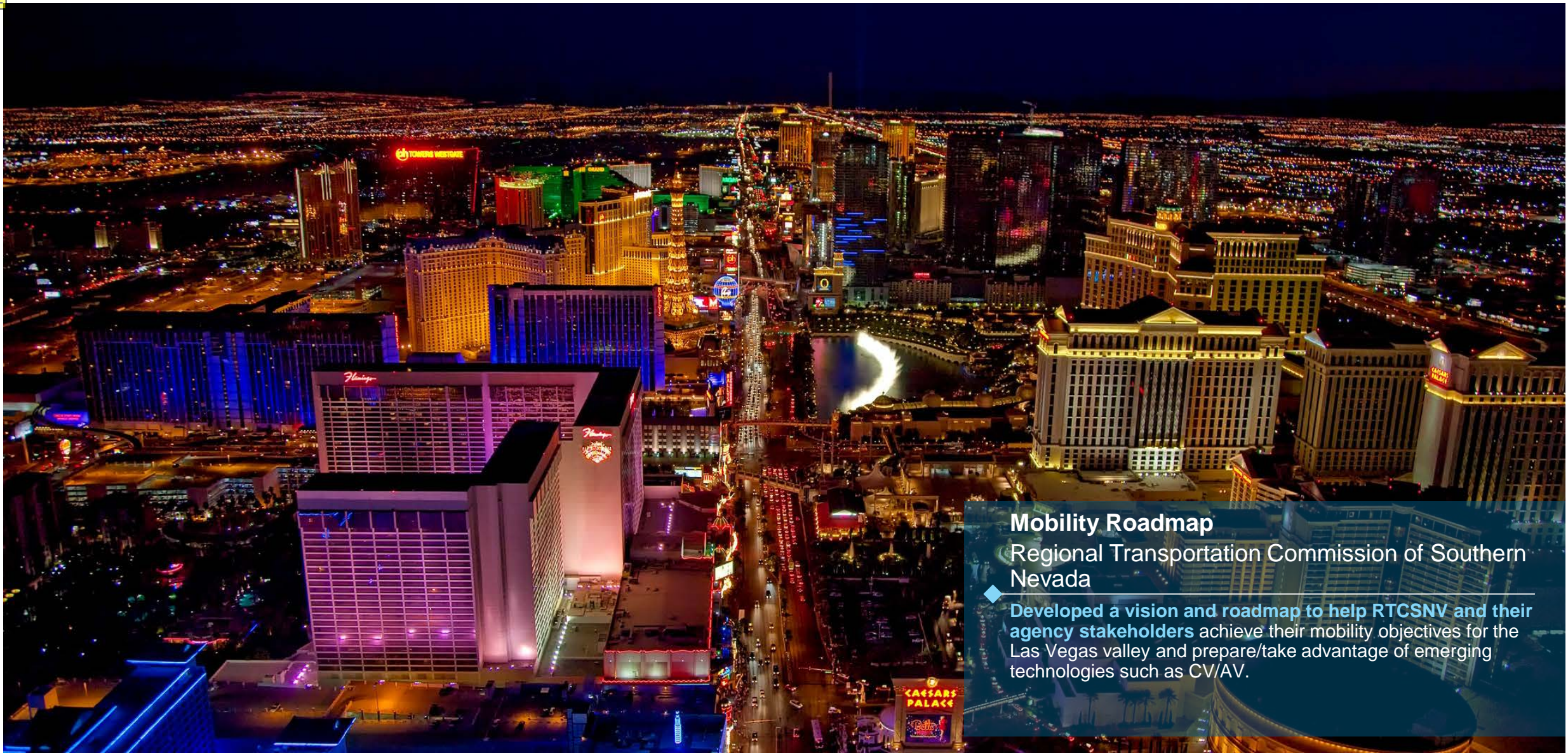
Visioning

What will tomorrow look like?

Roadmap

How are we going to get there?





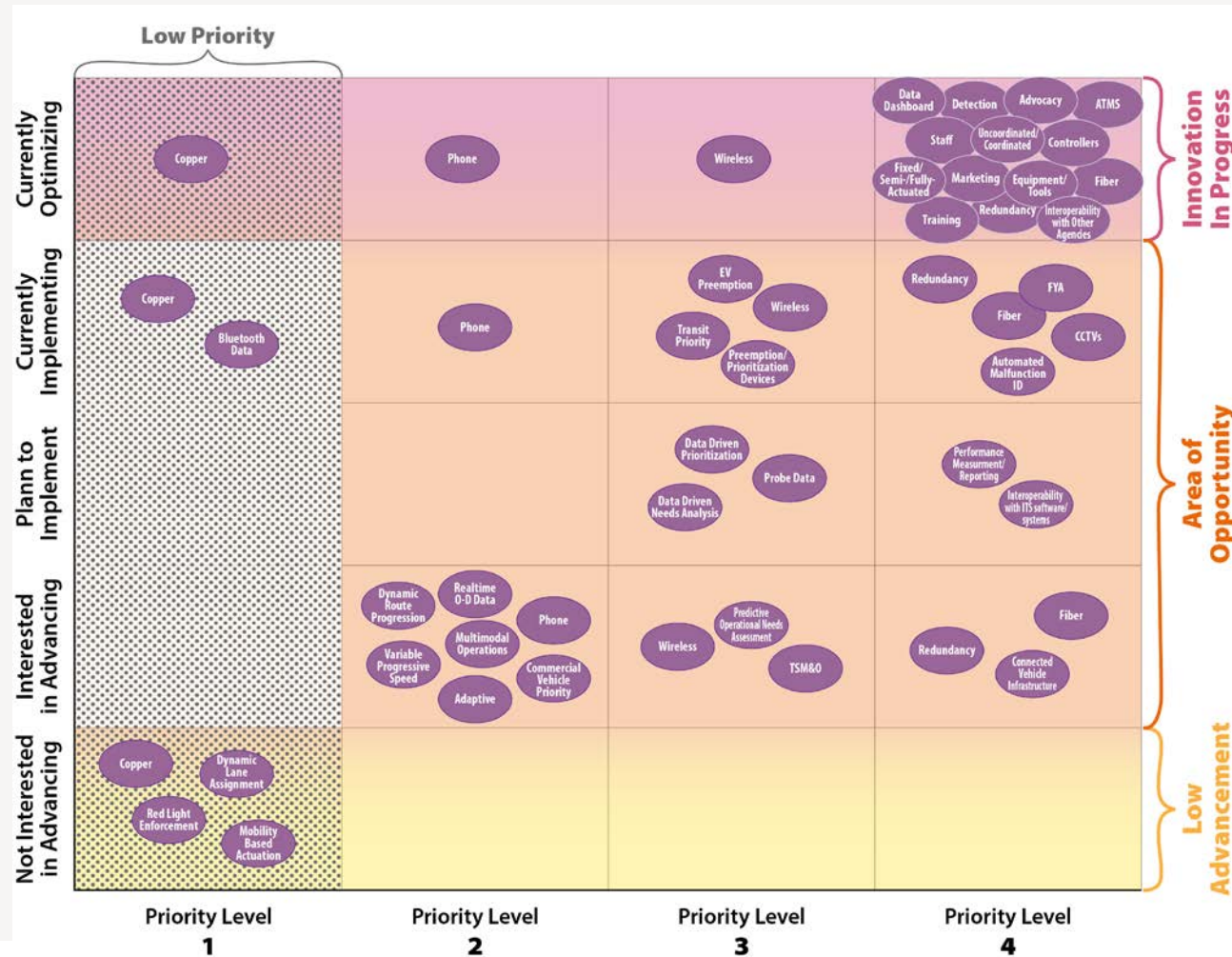
Mobility Roadmap

Regional Transportation Commission of Southern Nevada

◆ Developed a vision and roadmap to help RTCSNV and their agency stakeholders achieve their mobility objectives for the Las Vegas valley and prepare/take advantage of emerging technologies such as CV/AV.

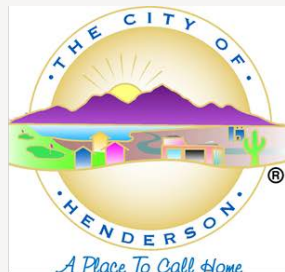


State of the Practice



- Data Management
- Data Driven Planning
- Traffic Signal Operations
- Multimodal Operations
- Emerging Technologies

Visioning



Roadmap

Solution name,
color-coded with
the challenge area
it addresses

Overall goal of
identified solution

Individual action
items to break
down the solution
into simple
implementable
steps

An aggressive,
but realistic,
timeline for
implementation

Mobility Needs Assessment

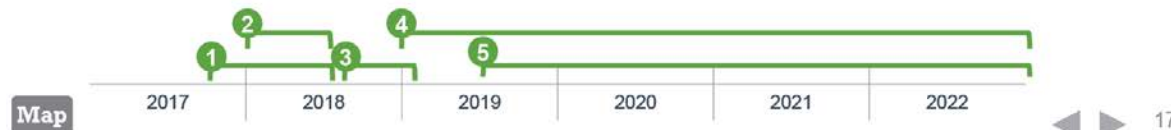


Goal: Use data to identify optimal solutions for improvement by determining unique needs and potential effectiveness of proposed solutions at targeted locations.

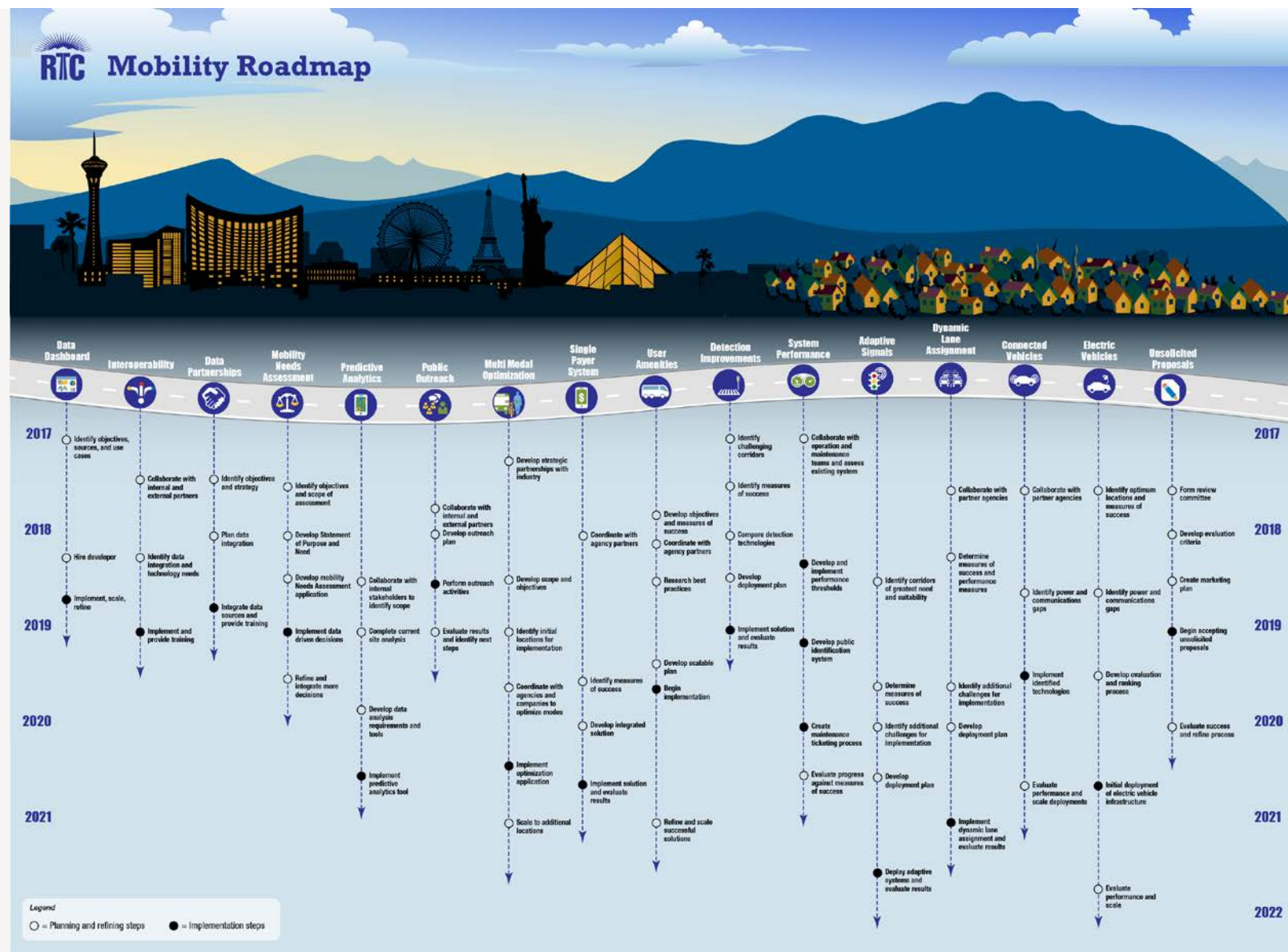
Action Items:

1. RTC staff and operators collaborate to identify objectives and scope for mobility needs assessment. Offer opportunities for stakeholders to provide feedback.
2. Plan how data will be used to identify needs and sources of congestion, including researching what tools and techniques currently are available or being developed through a Statement of Purpose and Need.
3. Develop mobility needs assessment application.
4. Implement mobility needs assessment and use to evaluate effectiveness of proposed solutions. Provide training and case studies to internal and external stakeholders regularly. Incorporate mobility needs assessment into short- and long-term planning procedures.
5. Scale and improve assessment by integrating into more planning decisions.

Example: FAST is currently ranking arterial and intersection operations to establish baseline performance, thresholds, and prioritize improvements.



17



Thoughtful
Flexible
Actionable





Thank You

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