MAYOR JAMES MUELLER

REBUILDING OUR STREETS
A 10-YEAR IMPROVEMENT PLAN

DEPARTMENT OF PUBLIC WORKS

CITY OF SOUTH BEND

MARCH 12, 2021

2018 Community Survey

Transportation & Infrastructure

- **69%** flagged this issue as their **first, second or third priority**
- **58%** said they were dissatisfied with the quality of **streets in their neighborhood**
- **74%** were dissatisfied with the quality of **major city streets**

Strategic Plan for next10 years

Develop short and long terms goals to achieve and monitor

Guiding Principles

1. Fix failed streets
2. Raise the bar
3. Create geographical equity
4. Make data driven decisions
5. Share data and be more transparent
6. Increase efficiency

Strategy Roadmap

01

Short-term (1 – 3 Years)

- Immediate priority: repair all failed streets (PASER of 1 or 2)
- Next step: repair all poor and fair streets (PASER of 3 or 4)
- Publicize 3 year paving list and develop a Streets Dashboard. (See Appendix B)

02

Long-term (3 - 10 Years)

- Achieve a target citywide average PASER rating of 7
- Develop a sustainable funding repair strategy that maintains and/or improves citywide street quality

03

Dashboard & Ongoing Reporting

- Consistently track and analyze street quality data in order to support data driven decision-making
- Keep the Streets Dashboard updated and share progress of the Plan with the public

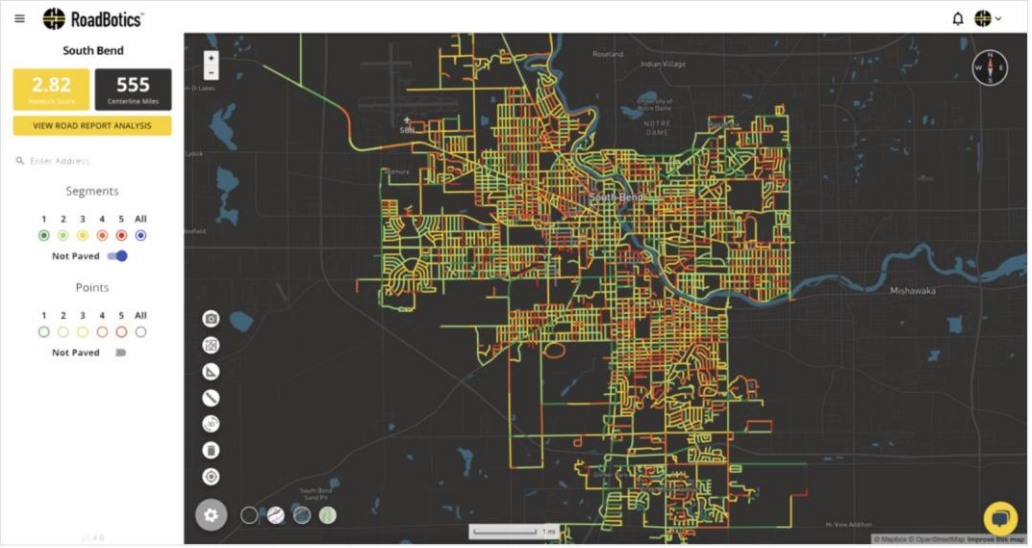
Street Assessment

1. Pavement Surface Evaluation and Rating (PASER)

Table 1. PASER Condition and Treatment

PASER RATING	CONDITION	TREATMENT
1	Failed	Reconstruction
2	Very Poor	Reconstruction
3	Poor	Structural Renewal (overlay)
4	Fair	Structural Renewal (overlay)
5	Fair	Preservation treatments (non-structural)
6	Good	Preservation treatments (non-structural)
7	Good	Crack sealing and minor patching
8	Very Good	Crack sealing and minor patching
9	Excellent	No Maintenance required
10	Excellent	No Maintenance required

2. Roadbotics



PASER Data Analysis

Changes from 2018 to 2020 PASER data

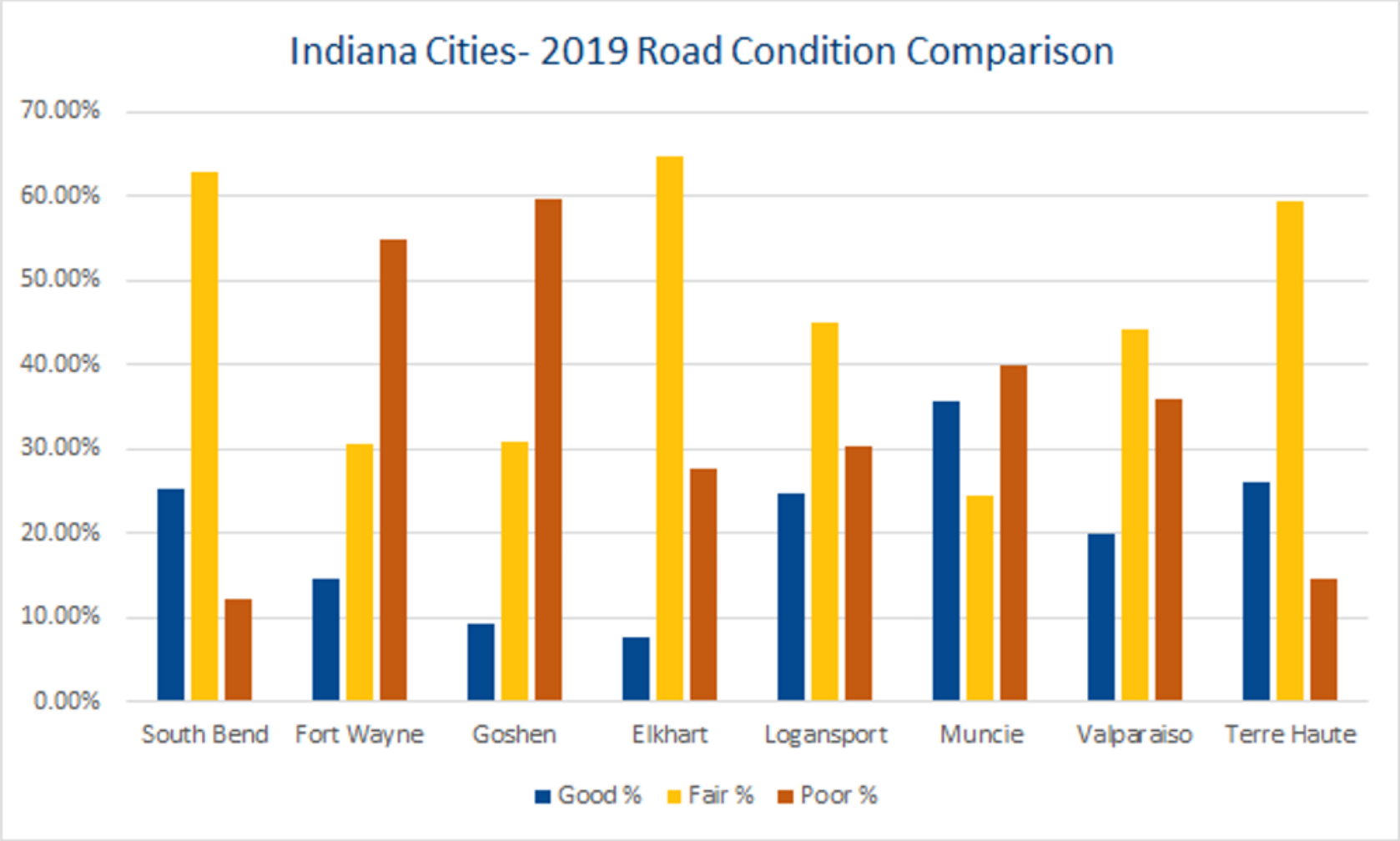
Metric	2018	2019	2020
Average PASER	6.11	6.6	6.0

2020 PASER data by road type

Road Type	Average PASER (out of 10)	Total Lane Miles
Non-residential	6.22	~395
Residential	5.89	~795

Benchmark Data Analysis

Table 8. Indiana Peer City Street Data analysis



Target for South Bend

Short- and Mid-term: 0% poor, >50% fair, and >50% good

- Based upon the total percentage of poor, fair, and good streets

Long-term: Average citywide PASER of 7

- Eventually shift to focusing on a target average citywide PASER
- Assumes that 0% of City streets are in poor or failed condition
- Based upon desire to increase the current citywide PASER of 6 in response to resident feedback

Financial Strategy

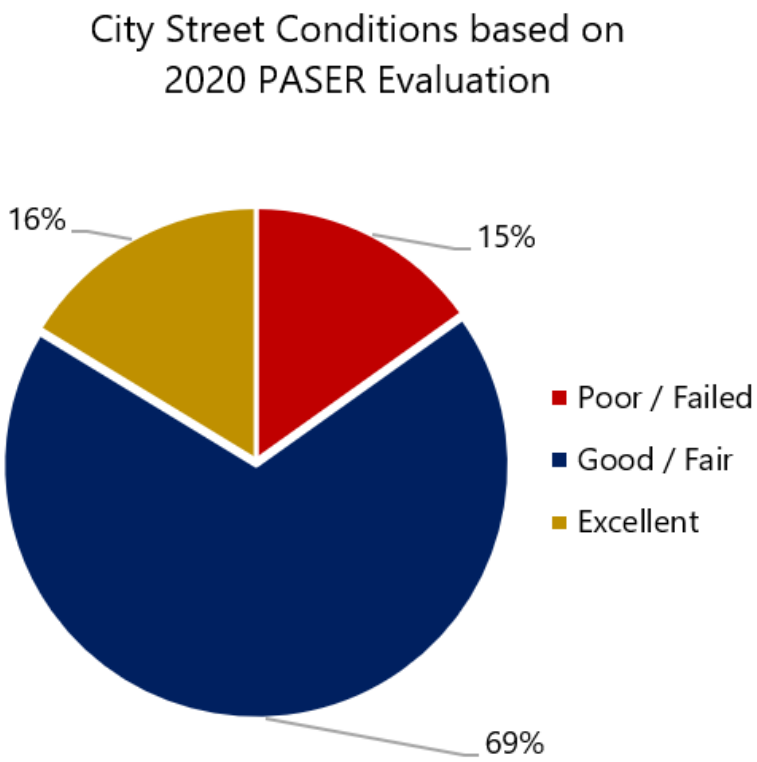
The key to a sustainable long-term street financial plan is to **allocate more funds to proactive maintenance techniques** such as crack sealing, instead of waiting until full street reconstruction is needed.

Table 9. Street Repair Strategy Costs

PASER	Repair Strategy	Maintenance Technique	Cost Per Lane Mile	Estimated Service Life Increase to Road
7 - 10	Preservation	Crack Sealing/ Microsurfacing	$5,500/15,000	3 - 7
5 - 6	Rehabilitation	1.5" Mill and Overlay	$125,000	10
3 - 4	Rehabilitation	3" Mill and Overlay	$182,000	13
1 - 2	Reconstruction	Traditional Reconstruction	$300,000	20

Long-Term Needs (2023-2030)

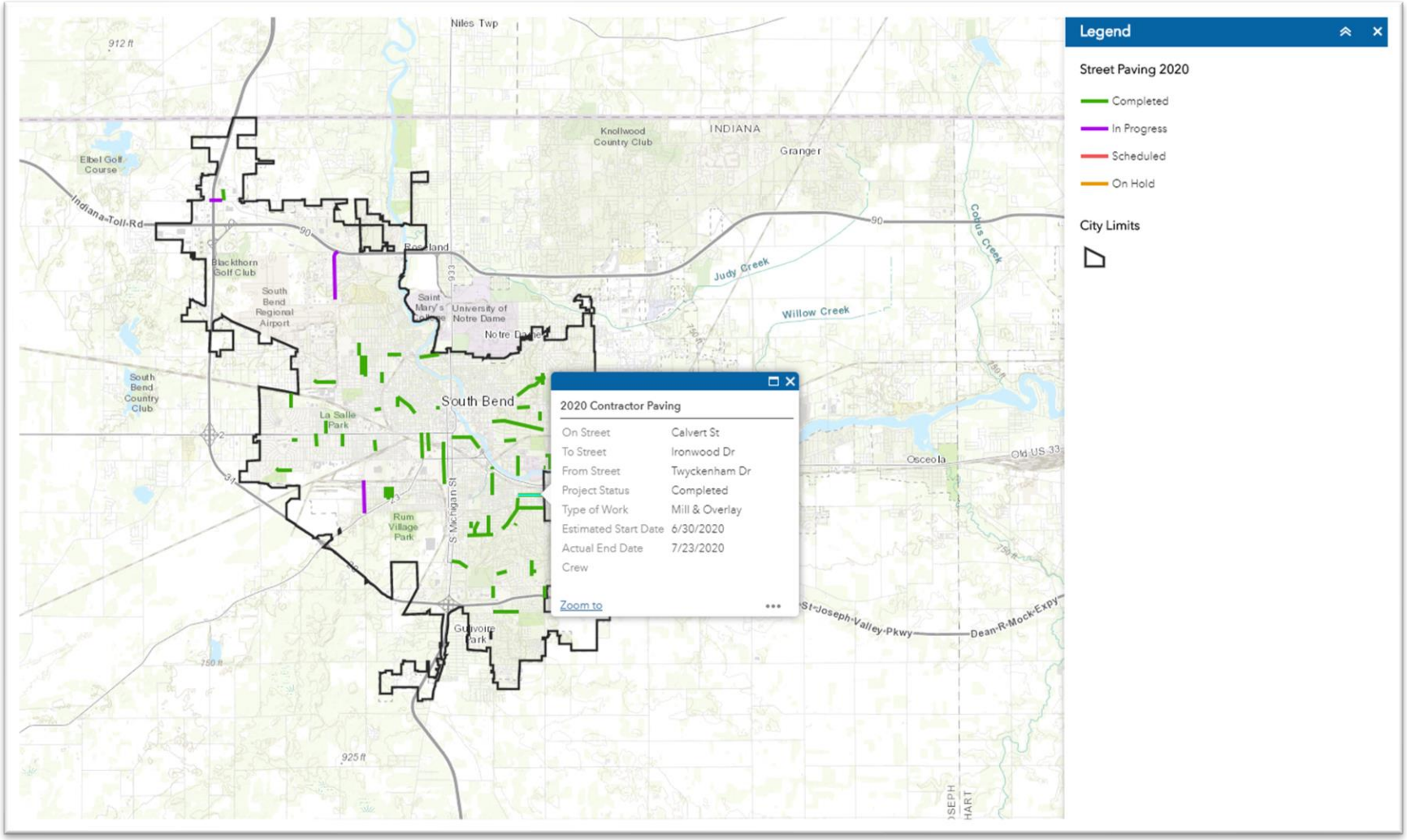
- Current street maintenance funding levels are not adequate to maintain PASER ratings into the future.
- Increasing resource allocation to streets maintenance enables the City to maintain and/or improve street conditions in the future.



Ongoing Reporting

- Paving and Repair Tracker
  - Current display of city-wide roadway construction projects
  - Basic information to the general public
- Open Portal Dashboard
  - Complete breakdown of overall roadway infrastructure
  - Transparency of roadway infrastructure and rating system

Paving & Repair Tracker



Open Portal Dashboard

City of South Bend | Street Conditions Dashboard

This dashboard is a summary of streets condition data collected by the City.

Search by road

Search

6.60
Average PASER Score
(out of 10)

1,261.4
Total Lane Miles

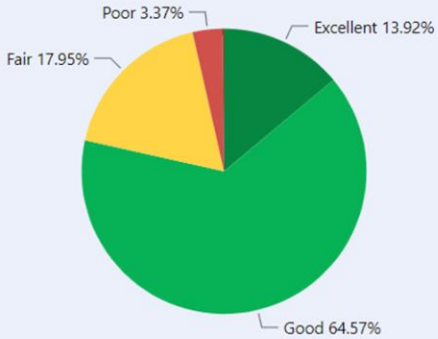
Pavement Type Breakdown

Asphalt
1,076.5
Lane Miles
6.58
Average PASER Score

Concrete
160.3
Lane Miles
6.53
Average PASER Score

Brick
24.4
Lane Miles
7.82
Average PASER Score

Street Conditions Breakdown

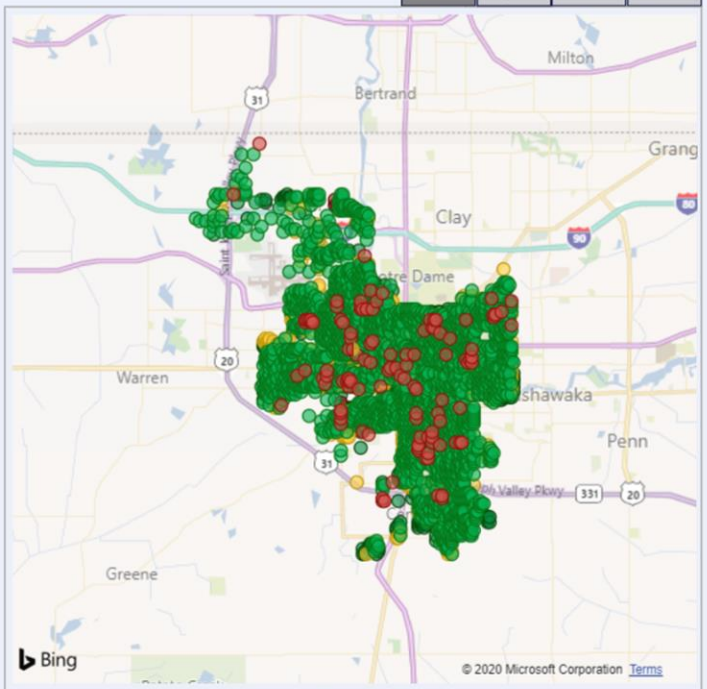


Master List of Streets in South Bend

Road	Classification	Type	Lane Miles	PASER Score
E Colfax Ave	Minor Arterial	Concrete	0.4	9.00
E Mishawaka Ave	Major Collector	Asphalt	1.1	7.00
E Sorin St	Local	Asphalt	0.1	1.00
N Elm St	Local	Brick	0.1	2.00
N Garden Oak Ct	Local	Asphalt	0.1	1.00
N Garden Oak Dr	Local	Asphalt	0.6	1.00
N Riverside Dr	Major Collector	Concrete	1.7	3.00
S Brookfield St	Local	Asphalt	0.1	1.00
S Grant St	Local	Asphalt	0.3	1.00
S Olive St	Minor Arterial	Concrete	1.3	1.33
S St. Louis Blvd	Major Collector	Asphalt	0.2	5.00
W Elwood Ave	Minor Collector	Asphalt	0.2	3.00

Street Conditions Map

All Roads | Asphalt | Brick | Concrete



Simple PR ● Excellent ● Failed ● Fair ● Good ● Poor

2021 Action Plan

- Outsourced Paving & Repair
  - Bid Packages
    - Full Reconstruction
    - Mill & Overlay
    - Brick Spot Repair
    - Microsurface
    - Crackseal
- In-house Paving & Crackseal
  - Done by City crews

Questions?