

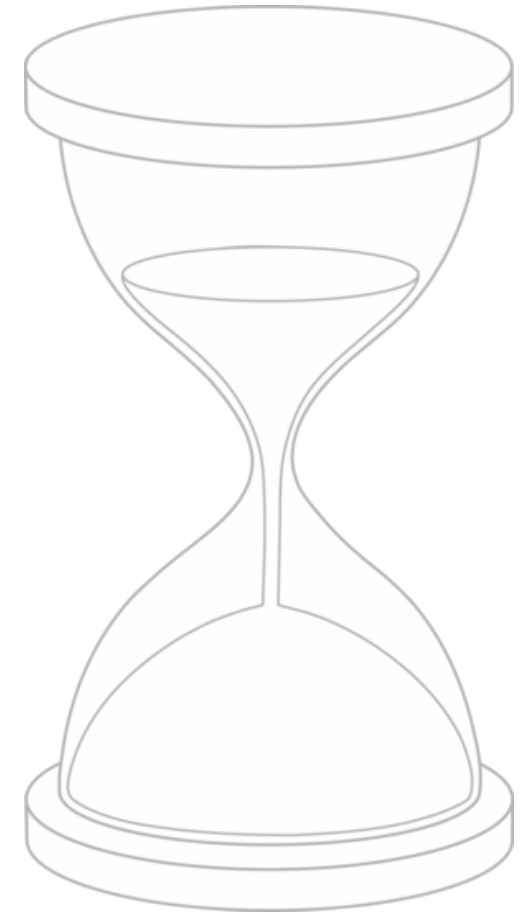
Prioritization 101

AN OVERVIEW OF NCDOT'S PRIORITIZATION PROCESS
WITH A LOOK TOWARDS P7.0

Prioritization 101

- **What is Prioritization?**
- **How does it work?**
- **What is the RPO's role in Prioritization?**

Project Life Cycle



Terminology

Prioritization = assigning data and scores to projects

STIP = State Transportation Improvement Program
= 10-year document of project funding and schedules

Programming = process of assigning funding and schedule to projects

Prioritization Process is Law

*“The Department shall develop and utilize a **process for selection of transportation projects** that is based on professional standards in order to most efficiently use limited resources to benefit all citizens of the State.*

*The strategic prioritization process should be a **systematic, data-driven process** that includes a **combination of quantitative data, qualitative input, and multimodal characteristics, and should include local input.***

The Department shall develop a process for standardizing or approving local methodology used in Metropolitan Planning Organization and Rural Transportation Planning Organization prioritization.” - S.L. 2012-84

Attempting to remove politics from the decision-making process.

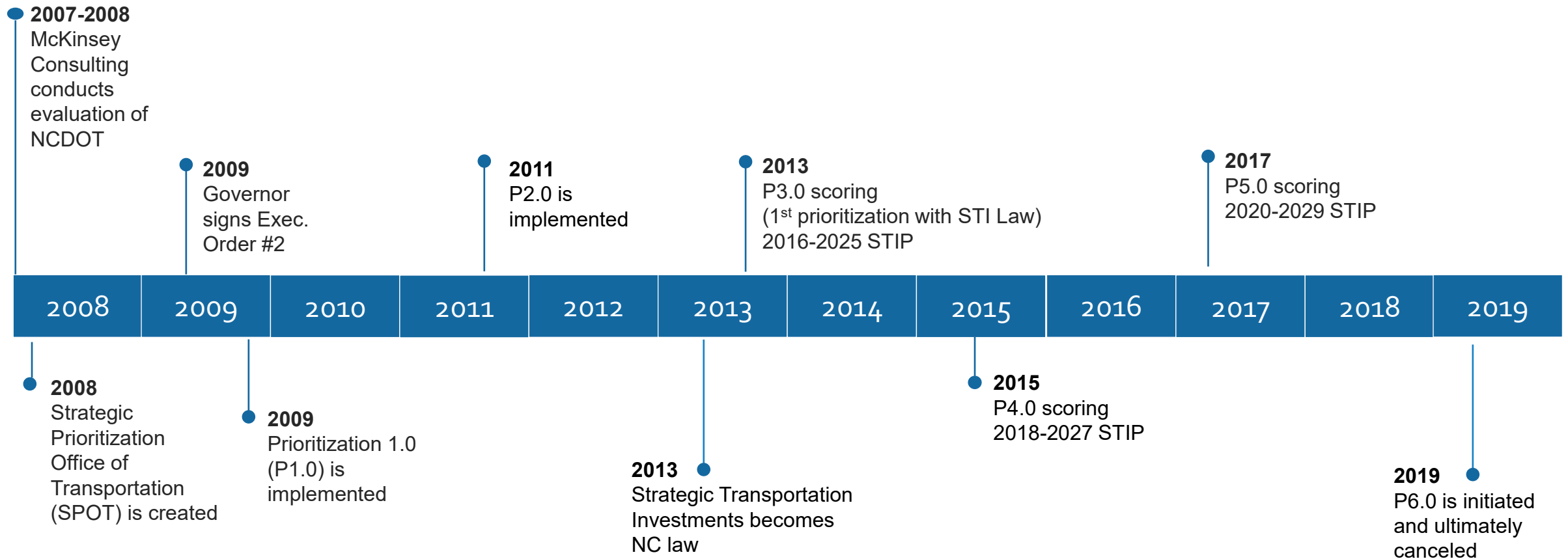
Making the project selection process more transparent.



**STRATEGIC
TRANSPORTATION
INVESTMENTS**

Smart decisions to keep North Carolina moving.

History of Prioritization



How the STI Law Works

- **Prioritizes Capital Expenditures across all modes**
 - *Modes: Aviation, Bicycle/Pedestrian, Ferry, Highway, Rail, Transit*
- **Needs-based, data-driven**
- **Directly ties funding to Prioritization Results**
- **Funding comes from Highway Trust Fund and Federal Aid Program**
- **Workgroup used every cycle for improvement**

STI Law: Legislation vs. Workgroup

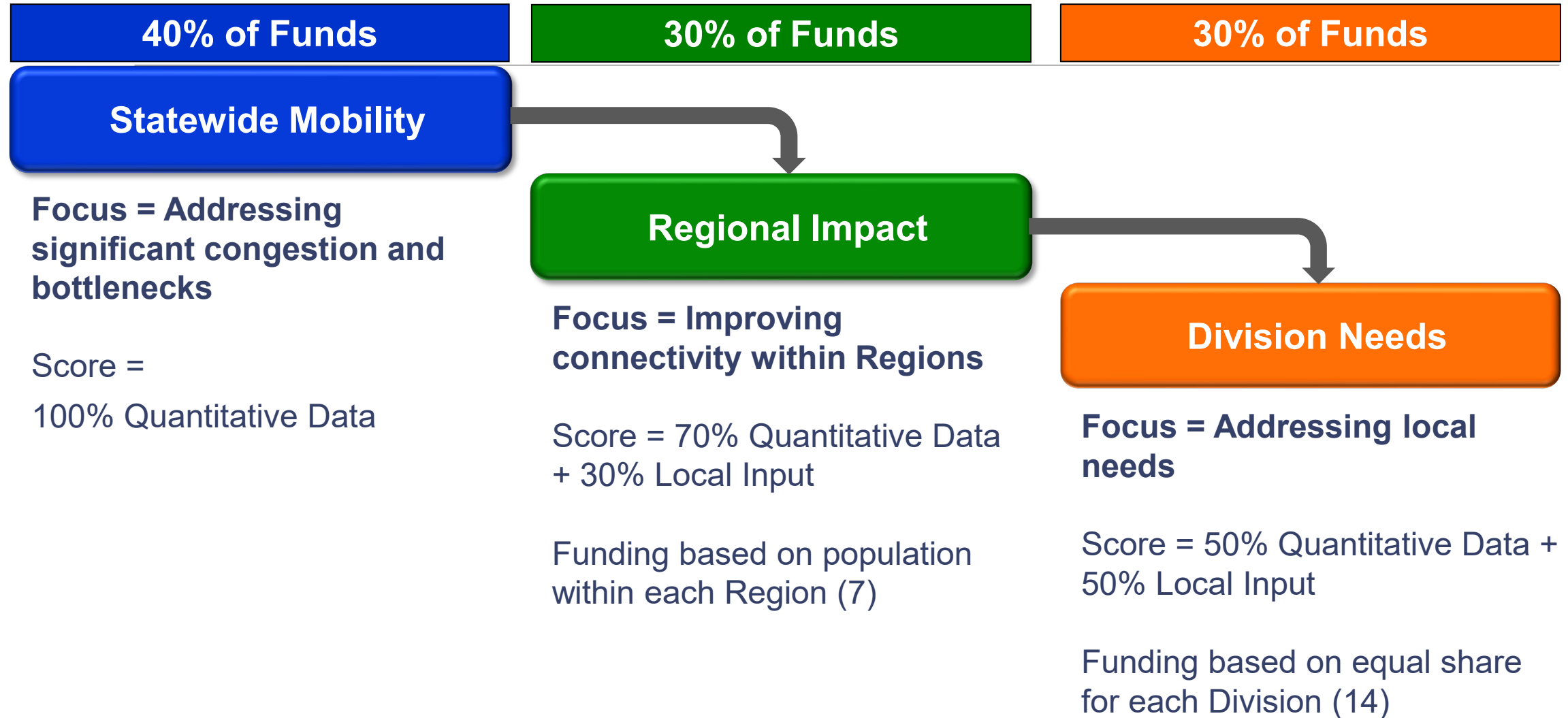
STI Law defines:

- Funding Categories and Percentages
- Project Eligibility
- Highway Scoring Criteria Names
- Funding Constraints

Workgroup recommends for BOT approval

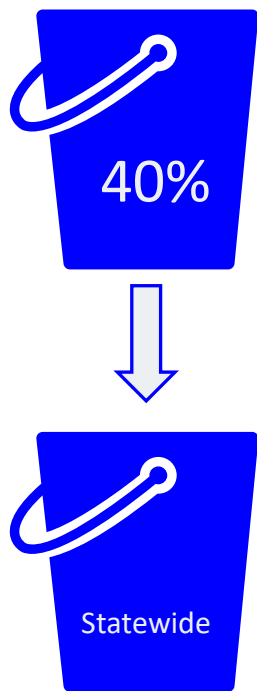
- Scoring Process (*timeframe, submittals, carryovers, etc.*)
- Highway Measures and Weights
- Non-Highway Criteria, Measures, and Weights
- Modal Allocation (*funding allocation between modes*)
- Local Input Points

STI Law: Funding Categories & Percentages

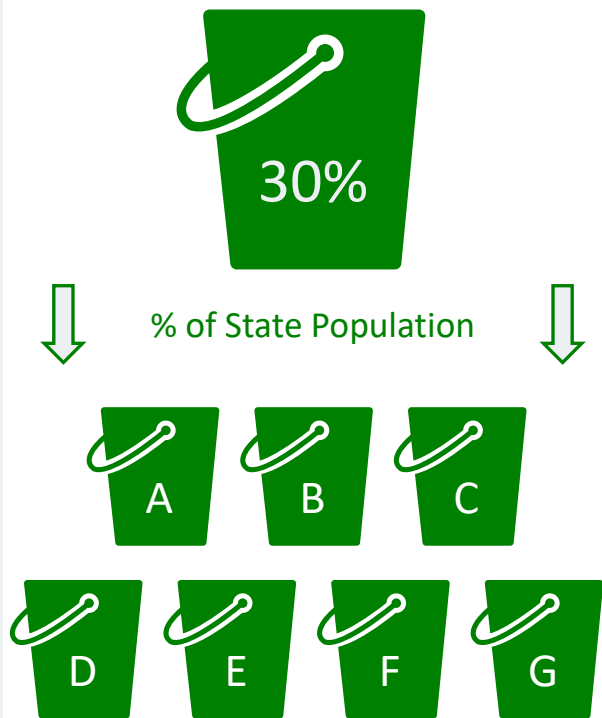


STI Law: Funding Categories & Percentages

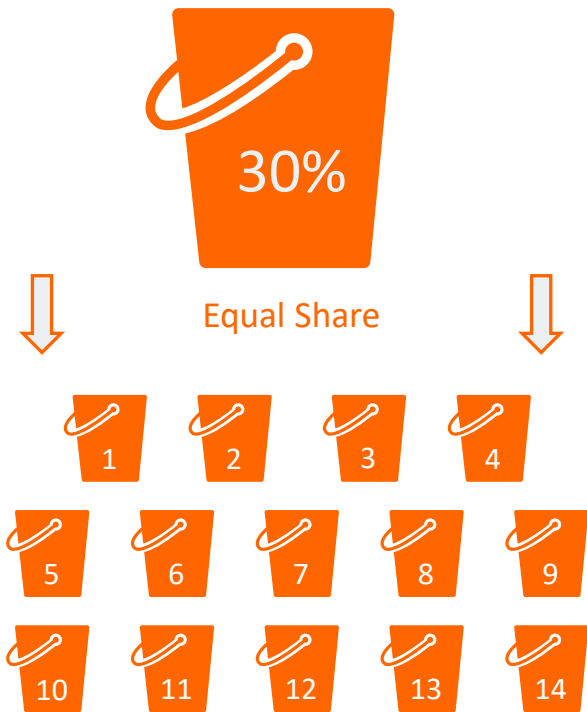
Statewide Mobility



Regional Impact



Division Needs



STI Law: Project Scoring

- **Criteria:**
 - Quantitative criteria (data-driven) – all 3 categories
 - Qualitative criteria (Local Input Points) – Regional Impact and Division Needs categories
- **0 to 100 scale**
- **Selection of projects in *ranked* order**
- Legislation provides the names of Highway Quantitative Criteria:

| Congestion | Benefit/Cost | Safety | Freight | Economic Competitiveness ¹ |
|---|--------------|------------|----------------|---------------------------------------|
| Accessibility/Connectivity ² | Multimodal | Lane Width | Shoulder Width | Pavement Score |

- ***Workgroup flexibility in determining the methodology used to calculate criteria***
- **Non-Highway Modes *must have a minimum of 4* quantitative criteria**

¹ Statewide Mobility only;

² Regional Impact & Division Needs only

State Transportation Improvement Program (STIP)

STIP identifies funding and scheduling of projects in NCDOT's capital program

- ~55% of NCDOT's Budget

10 Year Program (currently 2020-2029)

- First half is “**Delivery STIP**” – projects scheduled for delivery
- Second half is “**Developmental STIP**” – projects in early scoping and environmental development stage

Updated *approximately* every 2 years

STIP contains different project types:

- Highway & Non-Highway (**Prioritization**)
- Bridges, Safety, Interstate Maintenance, CMAQ, Carbon Reduction Program, and others.

Projects Submitted by MPOs, RPOs, & Divisions

SPOT Review

1. Reviewed for eligibility
2. Data screened & developed
3. Quantitative scores calculated

Statewide Mobility 40% of Funds

1. Projects programmed
2. Projects not programmed cascaded to next category

Regional Impact 30% of Funds

1. Local input points assigned
2. Total scores calculated
3. Projects programmed
4. Projects not programmed cascaded to next category

Regional Impact Score =
70% Quantitative +
30% Local Input

Division Needs 30% of Funds

1. Local input points assigned
2. Total scores calculated
3. Projects programmed

Division Needs Score =
50% Quantitative +
50% Local Input

Statewide Mobility Score =
100% Quantitative

“Projects Scheduled for Delivery”

10 Year Program (currently 2020-2029)

- First half is “**Delivery STIP**” – projects scheduled for delivery
- Second half is “**Developmental STIP**” – projects in early scoping and environmental development stage

Formerly known as “Committed Projects”

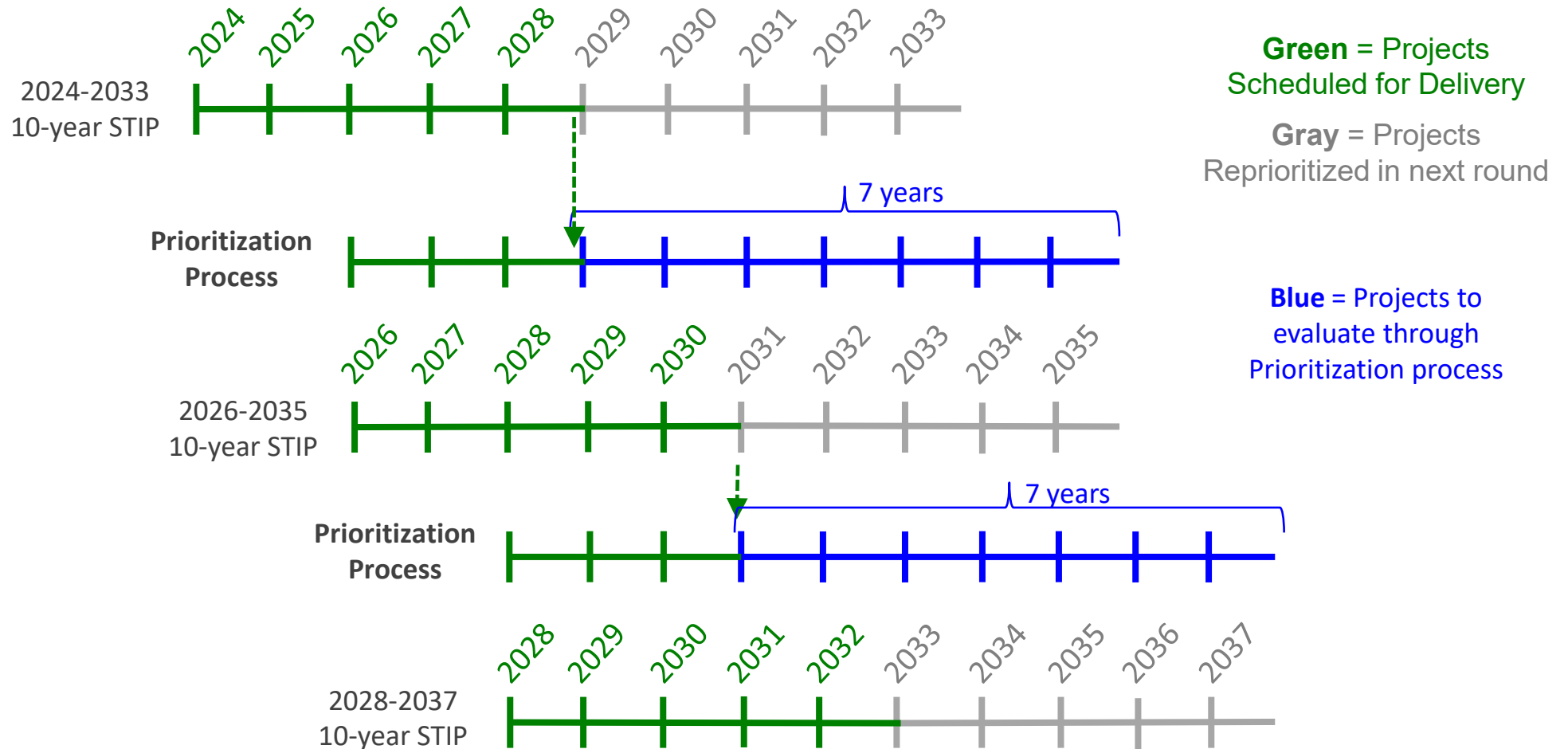
Definition: Projects **NOT** subject to re-evaluation in next round of Prioritization

Applies to 2024-2033 STIP *(scheduled for adoption)*

- Applies to ALL modes
- Applies to first year of programming (ROW or CON)
- Future dollars tied up

>> Programmed for ROW or CON between 2024 and 2028 <<

Projects Scheduled for Delivery vs. Years Subject to Reprioritization



Carryover Projects

“Carryover Projects” are *automatically evaluated* in the next round of Prioritization

P7.0 Workgroup recommended Carryover Projects to be defined as

- In the adopted 2024-2033 STIP and not scheduled for delivery (**2nd half**)
- Have completed environmental documents
- Sibling of programmed projects
- Two P6.0 New Submittals (per partner discretion)

Modifications:

- Segmenting counts as additional submittal slot
- Scope changes do not count as additional submittal slot
- 1 out / 1 in allowed with partner agreement

All other projects “removed” and available for resubmittal → “Holding Tank” Projects

Project Submittals

P7.0 Workgroup recommended the number of project submittals to be calculated using the same formula as in P6.0:

MPOs and RPOs

- Base of 12 submittals, plus:
 - +1 submittal for every 50,000 in population
 - +1 submittal for every 500 centerline miles

(No maximum number of submittals)

Divisions

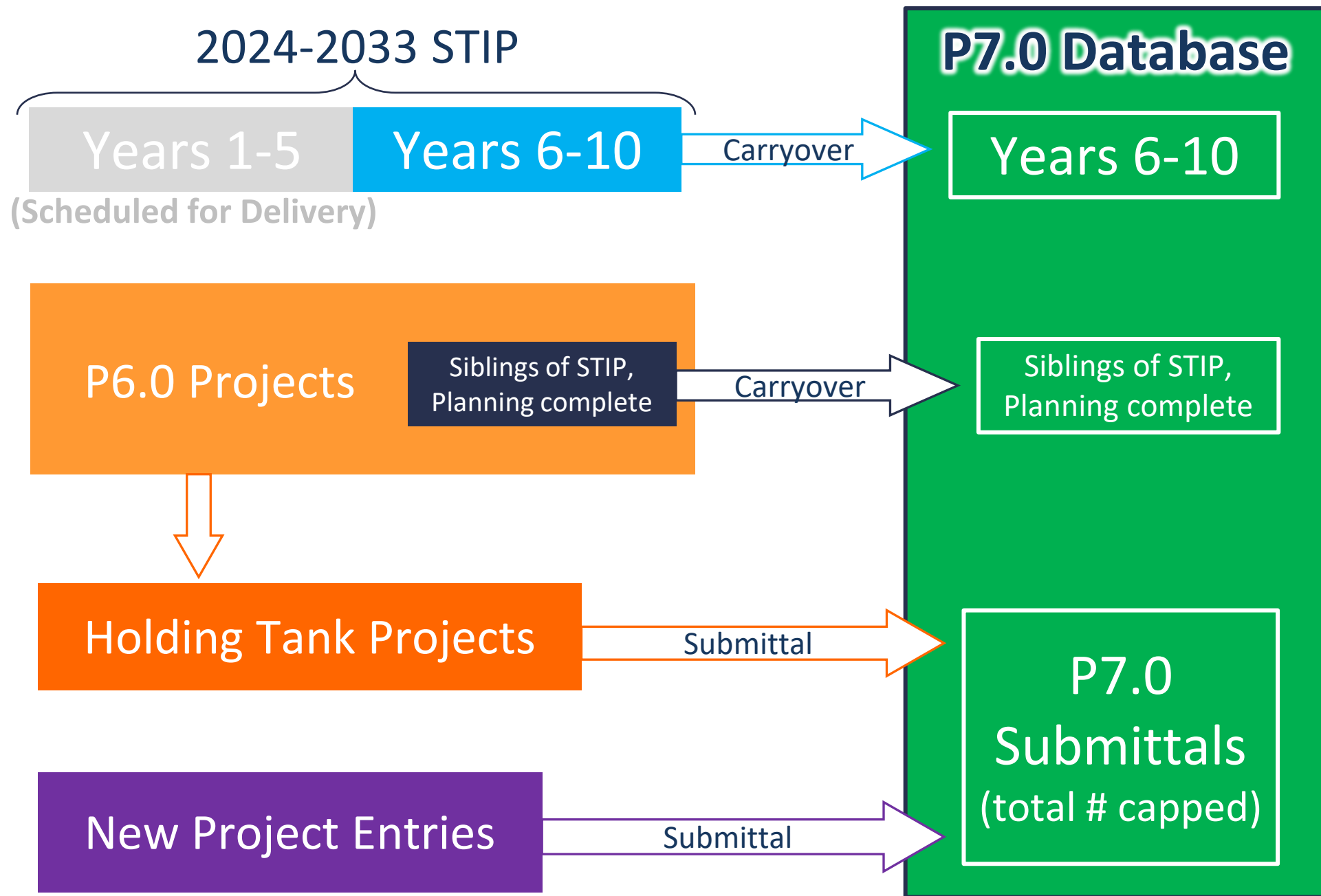
- 14 submittals
- Formula applies to each mode
- 1 out / 1 in (*with Carryover projects*) allowed with partner agreement

Recommended P7 Number of Submittals

| MPO/RPO Name | 2020 Census Population | Population rounded to nearest 50,000 | P7 Add'l Projects Based on Population | 2023 Centerline Miles | Centerline Miles rounded to nearest 500 | P7 Add'l Projects based on Centerline Miles | P7 Maximum Submittals for Each Mode |
|--|------------------------|--------------------------------------|---------------------------------------|-----------------------|---|---|-------------------------------------|
| Albemarle RPO | 174,219 | 150,000 | 3 | 2,937 | 3,000 | 6 | 21 |
| Burlington-Graham MPO | 176,195 | 200,000 | 4 | 1,036 | 1,000 | 2 | 18 |
| Cabarrus-Rowan MPO | 352,583 | 350,000 | 7 | 1,996 | 2,000 | 4 | 23 |
| Cape Fear RPO | 140,902 | 150,000 | 3 | 2,238 | 2,000 | 4 | 19 |
| Capital Area MPO | 1,304,889 | 1,300,000 | 26 | 4,158 | 4,000 | 8 | 46 |
| Charlotte Regional Transportation PO | 1,494,627 | 1,500,000 | 30 | 3,677 | 3,500 | 7 | 49 |
| Down East RPO | 139,417 | 150,000 | 3 | 1,905 | 2,000 | 4 | 19 |
| Durham-Chapel Hill-Carrboro MPO | 462,954 | 450,000 | 9 | 1,337 | 1,500 | 3 | 24 |
| Eastern Carolina RPO | 169,863 | 150,000 | 3 | 2,960 | 3,000 | 6 | 21 |
| Fayetteville Area MPO | 404,905 | 400,000 | 8 | 1,358 | 1,500 | 3 | 23 |
| Foothills RPO | 132,825 | 150,000 | 3 | 2,077 | 2,000 | 4 | 19 |
| French Broad River MPO | 426,274 | 450,000 | 9 | 2,561 | 2,500 | 5 | 26 |
| Gaston-Cleveland-Lincoln MPO | 404,464 | 400,000 | 8 | 2,998 | 3,000 | 6 | 26 |
| Goldsboro Urban Area MPO | 90,276 | 100,000 | 2 | 597 | 500 | 1 | 15 |
| Grand Strand Area Transportation Study | 47,909 | 50,000 | 1 | 271 | 500 | 1 | 14 |
| Greater Hickory MPO | 367,982 | 350,000 | 7 | 3,168 | 3,000 | 6 | 25 |
| Greensboro Urban Area MPO | 406,916 | 400,000 | 8 | 1,589 | 1,500 | 3 | 23 |
| Greenville Urban Area MPO | 140,982 | 150,000 | 3 | 465 | 500 | 1 | 16 |
| High Country RPO | 212,443 | 200,000 | 4 | 4,158 | 4,000 | 8 | 24 |

Recommended P7 Number of Submittals

| MPO/RPO Name | 2020 Census Population | Population rounded to nearest 50,000 | P7 Add'l Projects Based on Population | 2023 Centerline Miles | Centerline Miles rounded to nearest 500 | P7 Add'l Projects based on Centerline Miles | P7 Maximum Submittals for Each Mode |
|------------------------------|------------------------|--------------------------------------|---------------------------------------|-----------------------|---|---|-------------------------------------|
| High Point Urban Area MPO | 291,390 | 300,000 | 6 | 1,837 | 2,000 | 4 | 22 |
| Jacksonville Urban Area MPO | 198,407 | 200,000 | 4 | 569 | 500 | 1 | 17 |
| Kerr-Tar RPO | 165,829 | 150,000 | 3 | 2,837 | 3,000 | 6 | 21 |
| Land-of-Sky RPO | 68,364 | 50,000 | 1 | 1,196 | 1,000 | 2 | 15 |
| Lumber River RPO | 222,064 | 200,000 | 4 | 3,363 | 3,500 | 7 | 23 |
| Mid-Carolina RPO | 182,912 | 200,000 | 4 | 3,479 | 3,500 | 7 | 23 |
| Mid-East RPO | 110,738 | 100,000 | 2 | 2,143 | 2,000 | 4 | 18 |
| New Bern Area MPO | 54,294 | 50,000 | 1 | 254 | 500 | 1 | 14 |
| Northwest Piedmont RPO | 166,565 | 150,000 | 3 | 2,989 | 3,000 | 6 | 21 |
| Peanut Belt RPO | 113,183 | 100,000 | 2 | 2,628 | 2,500 | 5 | 19 |
| Piedmont Triad RPO | 260,674 | 250,000 | 5 | 3,970 | 4,000 | 8 | 25 |
| Rocky Mount Urban Area MPO | 77,662 | 100,000 | 2 | 487 | 500 | 1 | 15 |
| Rocky River RPO | 103,648 | 100,000 | 2 | 2,109 | 2,000 | 4 | 18 |
| Southwestern RPO | 143,270 | 150,000 | 3 | 2,618 | 2,500 | 5 | 20 |
| Triangle Area RPO | 230,432 | 250,000 | 5 | 2,931 | 3,000 | 6 | 23 |
| Upper Coastal Plain RPO | 232,705 | 250,000 | 5 | 3,089 | 3,000 | 6 | 23 |
| Wilmington Urban Area MPO | 296,302 | 300,000 | 6 | 827 | 1,000 | 2 | 20 |
| Winston-Salem Urban Area MPO | 449,926 | 450,000 | 9 | 1,479 | 1,500 | 3 | 24 |



| Funding Category | <u>QUANTITATIVE</u> | | <u>LOCAL INPUT</u> | |
|---------------------------|---|------|--------------------|---------|
| | Data | | Division | MPO/RPO |
| Statewide Mobility | Criteria 1 = 30% Criteria 2 = 25% Criteria 3 = 15% Criteria 4 = 10% Criteria 5 = 15% Criteria 6 = 5% | 100% | -- | -- |
| Regional Impact | Criteria 1 = 20% Criteria 2 = 20% Criteria 3 = 10% Criteria 4 = 10% Criteria 5 = 10% | 70% | 15% | 15% |
| Division Needs | Criteria 1 = 15% Criteria 2 = 15% Criteria 3 = 10% Criteria 4 = 5% Criteria 5 = 5% | 50% | 25% | 25% |

Local Input Points

P7.0 Workgroup recommended the number of local input points to be calculated using the same formula as in P6.0:

- **Number of Points per Area:**
 - Base of 1,000 points
 - +100 additional points for every 50,000 in population (rounding up)

Max 2,500 points per area

Same allocation for **Regional Impact** and **Division Needs**

100 points max per project per category

Recommended P7 Number of Local Input Points

| MPO/RPO Name | 2020 Census Population | Population rounded to next 50,000 | P7 Local Input Points |
|--|------------------------|-----------------------------------|-----------------------|
| Albemarle RPO | 174,219 | 200,000 | 1,400 |
| Burlington-Graham MPO | 176,195 | 200,000 | 1,400 |
| Cabarrus-Rowan MPO | 352,583 | 400,000 | 1,800 |
| Cape Fear RPO | 140,902 | 150,000 | 1,300 |
| Capital Area MPO | 1,304,889 | 1,350,000 | 2,500 |
| Charlotte Regional Transportation PO | 1,494,627 | 1,500,000 | 2,500 |
| Down East RPO | 139,417 | 150,000 | 1,300 |
| Durham-Chapel Hill-Carrboro MPO | 462,954 | 500,000 | 2,000 |
| Eastern Carolina RPO | 169,863 | 200,000 | 1,400 |
| Fayetteville Area MPO | 404,905 | 450,000 | 1,900 |
| Foothills RPO | 132,825 | 150,000 | 1,300 |
| French Broad River MPO | 426,274 | 450,000 | 1,900 |
| Gaston-Cleveland-Lincoln MPO | 404,464 | 450,000 | 1,900 |
| Goldsboro Urban Area MPO | 90,276 | 100,000 | 1,200 |
| Grand Strand Area Transportation Study | 47,909 | 50,000 | 1,100 |
| Greater Hickory MPO | 367,982 | 400,000 | 1,800 |
| Greensboro Urban Area MPO | 406,916 | 450,000 | 1,900 |
| Greenville Urban Area MPO | 140,982 | 150,000 | 1,300 |
| High Country RPO | 212,443 | 250,000 | 1,500 |

Recommended P7 Number of Local Input Points

| MPO/RPO Name | 2020 Census Population | Population rounded to next 50,000 | P7 Local Input Points |
|------------------------------|------------------------|-----------------------------------|-----------------------|
| High Point Urban Area MPO | 291,390 | 300,000 | 1,600 |
| Jacksonville Urban Area MPO | 198,407 | 200,000 | 1,400 |
| Kerr-Tar RPO | 165,829 | 200,000 | 1,400 |
| Land-of-Sky RPO | 68,364 | 100,000 | 1,200 |
| Lumber River RPO | 222,064 | 250,000 | 1,500 |
| Mid-Carolina RPO | 182,912 | 200,000 | 1,400 |
| Mid-East RPO | 110,738 | 150,000 | 1,300 |
| New Bern Area MPO | 54,294 | 100,000 | 1,200 |
| Northwest Piedmont RPO | 166,565 | 200,000 | 1,400 |
| Peanut Belt RPO | 113,183 | 150,000 | 1,300 |
| Piedmont Triad RPO | 260,674 | 300,000 | 1,600 |
| Rocky Mount Urban Area MPO | 77,662 | 100,000 | 1,200 |
| Rocky River RPO | 103,648 | 150,000 | 1,300 |
| Southwestern RPO | 143,270 | 150,000 | 1,300 |
| Triangle Area RPO | 230,432 | 250,000 | 1,500 |
| Upper Coastal Plain RPO | 232,705 | 250,000 | 1,500 |
| Wilmington Urban Area MPO | 296,302 | 300,000 | 1,600 |
| Winston-Salem Urban Area MPO | 449,926 | 450,000 | 1,900 |

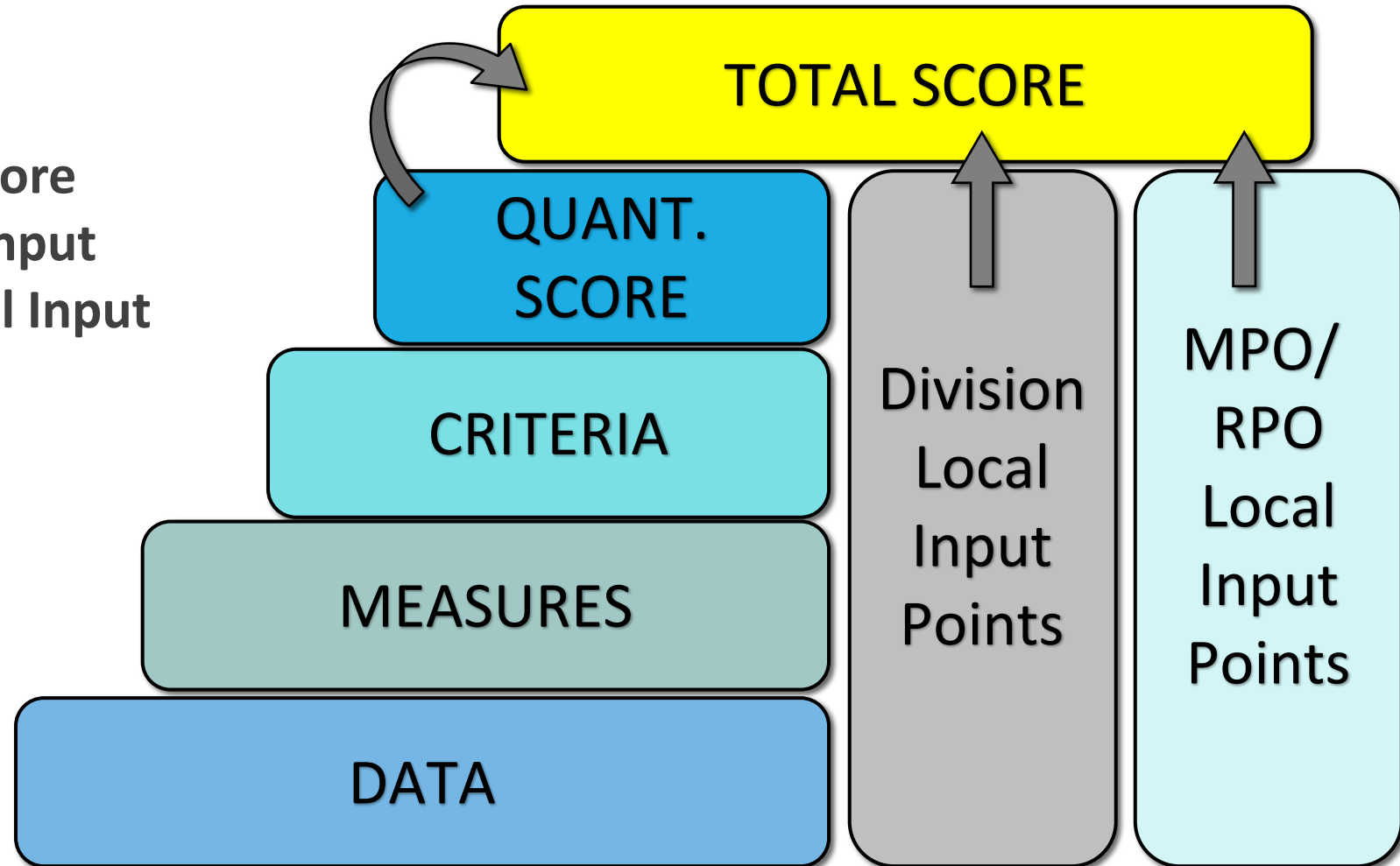
Recommended P7 Number of Local Input Points

| Division | 2020 Census Population | Population rounded to next 50,000 | P7 Local Input Points |
|----------|------------------------|-----------------------------------|-----------------------|
| 01 | 259,368 | 300,000 | 1,600 |
| 02 | 498,175 | 500,000 | 2,000 |
| 03 | 751,268 | 800,000 | 2,500 |
| 04 | 605,706 | 650,000 | 2,300 |
| 05 | 1,642,369 | 1,650,000 | 2,500 |
| 06 | 689,414 | 700,000 | 2,400 |
| 07 | 959,124 | 1,000,000 | 2,500 |
| 08 | 538,152 | 550,000 | 2,100 |
| 09 | 774,545 | 800,000 | 2,500 |
| 10 | 1,629,022 | 1,650,000 | 2,500 |
| 11 | 371,163 | 400,000 | 1,800 |
| 12 | 779,095 | 800,000 | 2,500 |
| 13 | 516,304 | 550,000 | 2,100 |
| 14 | 373,793 | 400,000 | 1,800 |

Building a Project Score

3 Parts:

- Quantitative Score
- Division Local Input
- MPO/RPO Local Input



Additional Topics to Cover

Project Eligibility

Project Scoring Overview (by mode)

- *Will be sent via email for RPO member to use for reference when brainstorming projects*
- *Can be the subject of future RPO meeting presentations*

Reminder: RPO Staff always available for questions.