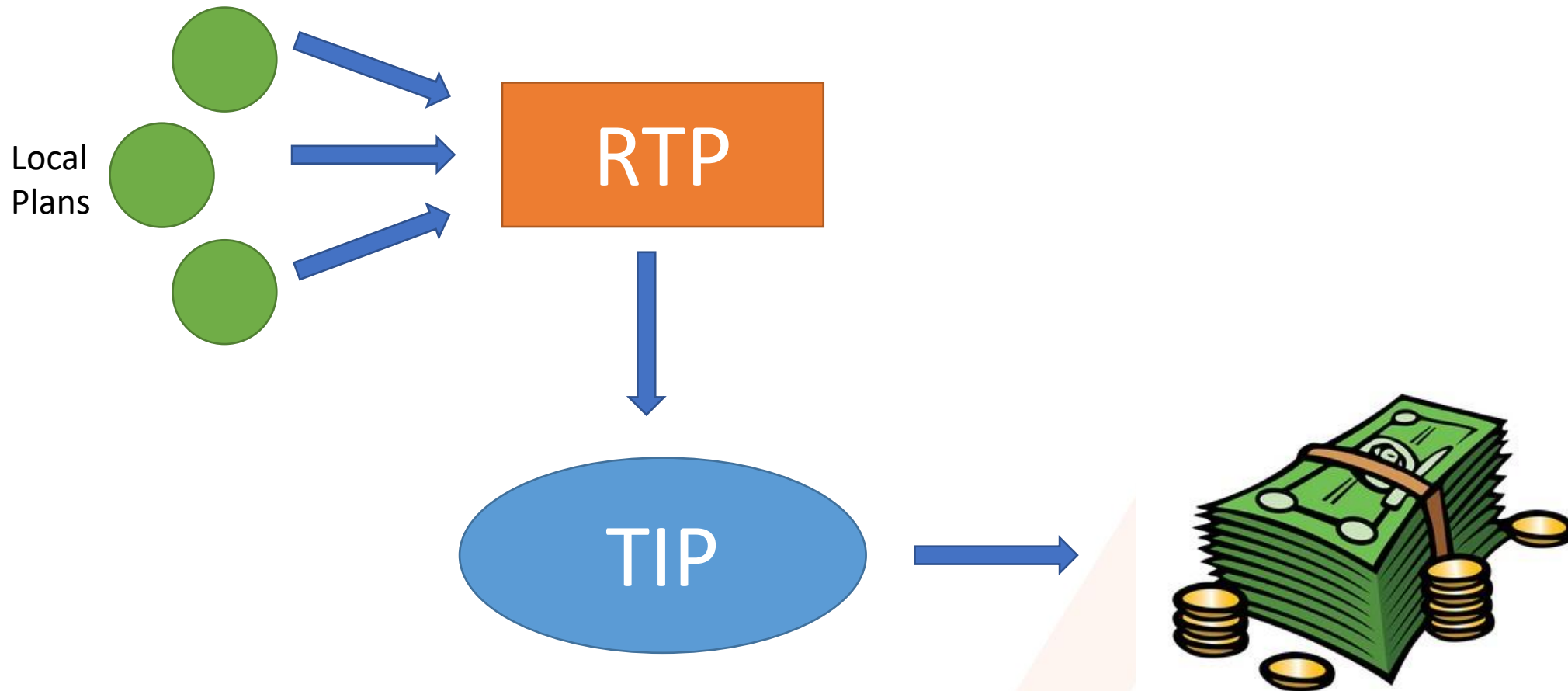


# TIP Evaluation Updates

4 June 2021

# What is the TIP?



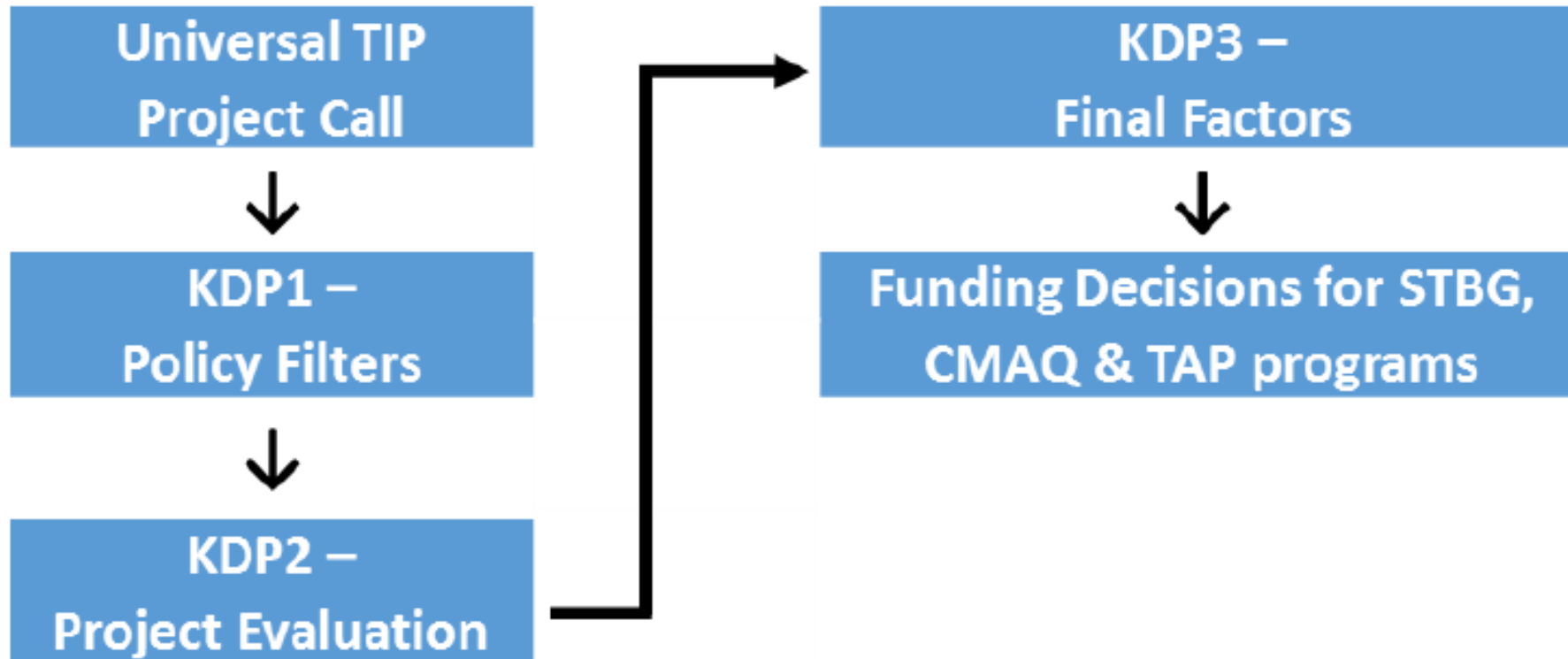
# THE ARC TIP PROJECT EVALUATION FRAMEWORK

“The Project Evaluation Cookbook”

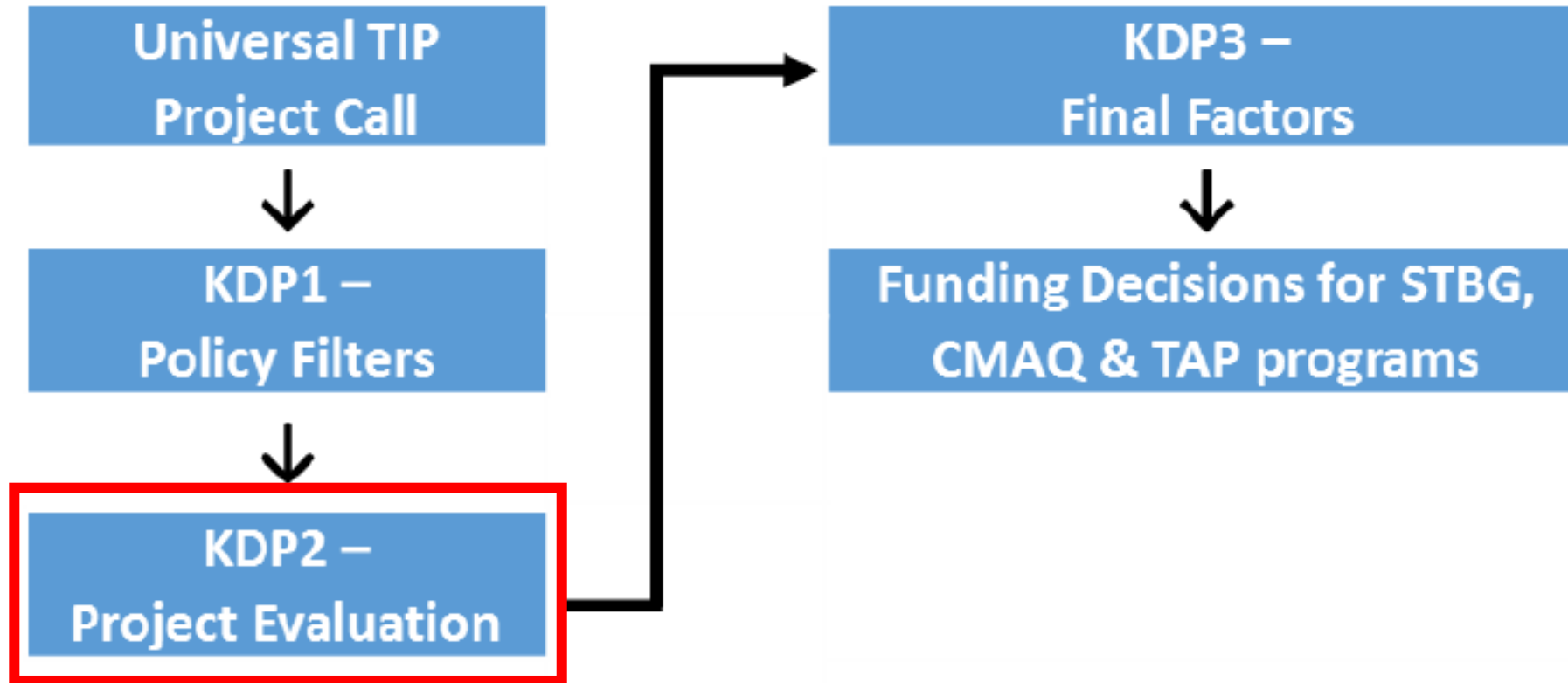
Atlanta Regional  
Commission

Revised  
August 2019

# Key Decision Point Framework



# Key Decision Point Framework



# Current Methodology



**Table S2 – Criteria Weights by Project Type<sup>13</sup>**

<b>Criteria</b>	<b>Bike/Ped/Trail</b>	<b>Roadway Asset Management</b>	<b>Roadway Expansion &amp; TSM&amp;O</b>	<b>Transit Expansion</b>	<b>Transit Asset Management &amp; System Upgrades<sup>14</sup></b>
Asset Management & Resiliency	-	14.9 %	-	-	24.4 % / 22.1 %
Mobility & Congestion	13.7 %	13.8 %	13.0 %	13.5 %	21.6 % / 19.6 %
Safety	14.5 %	14.4 %	13.4 %	8.5 %	13.6 % / 12.3 %
Network Connectivity	14.4 %	12.9 %	12.4 %	13.5 %	-
Reliability	-	-	12.1 %	12.0 %	-
Multimodalism	12.6 %	11.8 %	11.3 %	10.2 %	-
Employment Accessibility	10.4 %	10.2 %	10.3 %	11.6 %	18.6 % / 16.8 %
Land Use Compatibility	11.5 %	-	-	10.5 %	-
Social Equity	9.7 %	8.3 %	7.0 %	9.5 %	15.2 % / 13.8 %
Air Quality & Climate Change	6.3 %	-	7.3 %	6.5 %	0.0 % / 9.4 %
Goods Movement	-	8.1 %	7.8 %	-	-
Cultural & Environmental Sensitivity	6.8 %	5.5 %	5.3 %	4.1 %	6.6 % / 6.0 %

# Goals for Proposed Methodology

- Increase clarity in final scores
- Update criteria weights as necessary
- Use of new models/methods & removing outdated/unnecessary ones





# Proposed Method

Mobility &  
Access

**X%**

Equity

**Y%**

Safety

**Z%**

Resiliency

**A%**

# Current Weights Translated

	BikePed/Trail	Roadway Asset	Roadway Exp/TSMO	Transit Exp	Transit Asset
Mobility & Access	51.1%	56.8%	66.9%	60.8%	36.4%
Equity	9.7%	8.3%	7.0%	9.5%	13.8%
Safety	14.5%	14.4%	13.4%	8.5%	12.3%
Resiliency	24.7%	20.4%	12.7%	21.2%	37.5%

# New Ideas

- Checking on performance rather than just location
  - Safety
  - Resiliency
  - Equity



# Proposed Method Example

## Proposed Metrics: Roadway Expansion

Mobility & Access		
Improves Congestion	a%	X%
Improves Access to Destinations	b%	
Regional Significance	c%	
Improves Active Transportation	d%	
Equity		
Addresses Equity	100%	Y%
Safety		
Improves Safety	100%	Z%
Resiliency		
Reduction of Greenhouse Gasses	e%	A%
Reduction of Air Pollutants	f%	
Addresses Flood Risk	g%	

$$a\% + b\% + c\% + d\% = 100\%$$

$$e\% + f\% + g\% = 100\%$$

$$X\% + Y\% + Z\% + A\% = 100\%$$

# Proposed Method Example

## Proposed Metrics: Roadway Expansion

Mobility & Access		
Improves Congestion	25%	25%
Improves Access to Destinations	25%	
Regional Significance	25%	
Improves Active Transportation	25%	
Equity		
Addresses Equity	100%	25%
Safety		
Improves Safety	100%	25%
Resiliency		
Reduction of Greenhouse Gasses	33.3%	25%
Reduction of Air Pollutants	33.3%	
Addresses Flood Risk	33.3%	

# Need for Feedback

- What should these weights be?
- Should they be different or the same by project type?
- Should TCC & TAQC decide the sub-criteria weights or should that be a staff-level decision?



# Proposed Metrics: Bike/Ped

Mobility & Access		
Network Connectivity		X%
Transit Connectivity		
Improves Access to Destinations		
Supporting Land Use		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Addresses Flood Risk		A%
Reduction of Greenhouse Gasses		
Reduction of Air Pollutants		

# Proposed Metrics: Trail

Mobility & Access		
Network Connectivity		X%
Transit Connectivity		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Addresses Flood Risk		A%
Reduction of Greenhouse Gasses		
Reduction of Air Pollutants		



# Proposed Metrics: Roadway Asset Management

Mobility & Access		
Facility Throughput		X%
Improves Access to Destinations		
Regional Significance		
Improves Active Transportation		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Condition of Asset		A%
Age of Asset		
Addresses Flood Risk		

# Proposed Metrics: Roadway Expansion

Mobility & Access		
Improves Congestion		X%
Improves Access to Destinations		
Regional Significance		
Improves Active Transportation		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Reduction of Greenhouse Gasses		A%
Reduction of Air Pollutants		
Addresses Flood Risk		

# Proposed Metrics: TSM&O - Built Environment

Mobility & Access		
Improves Congestion		X%
Improves Access to Destinations		
Regional Significance		
Improves Active Transportation		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Reduction of Greenhouse Gasses		A%
Reduction of Air Pollutants		
Addresses Flood Risk		

# Proposed Metrics: TSM&O - Technology

Mobility & Access		
Improves Congestion		X%
Improves Access to Destinations		
Regional Significance		
Improves Active Transportation		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Reduction of Greenhouse Gasses		A%
Reduction of Air Pollutants		

# Proposed Metrics: Transit Expansion

Mobility & Access		
Ridership		X%
Reliability		
Network Connectivity		
Improves Access to Destinations		
Equity		
Addresses Equity		Y%
Safety		
Improves Safety		Z%
Resiliency		
Reduction of Greenhouse Gasses		A%
Reduction of Air Pollutants		
Supporting Land Use		

# Proposed Metrics: Transit Asset Management

Mobility & Access		
Riders Affected		X%
Equity		
Addresses Equity	100%	Y%
Safety		
Addresses Safety		Z%
Resiliency		
Reduction of Greenhouse Gasses		A%
Reduction of Air Pollutants		
Asset Condition		