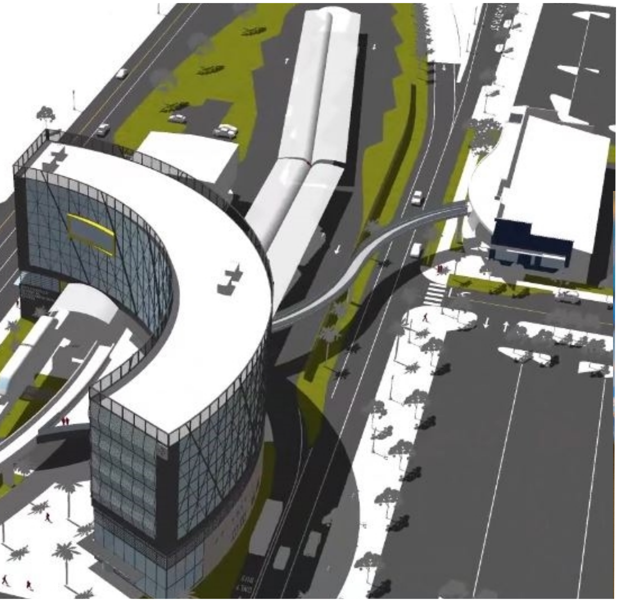
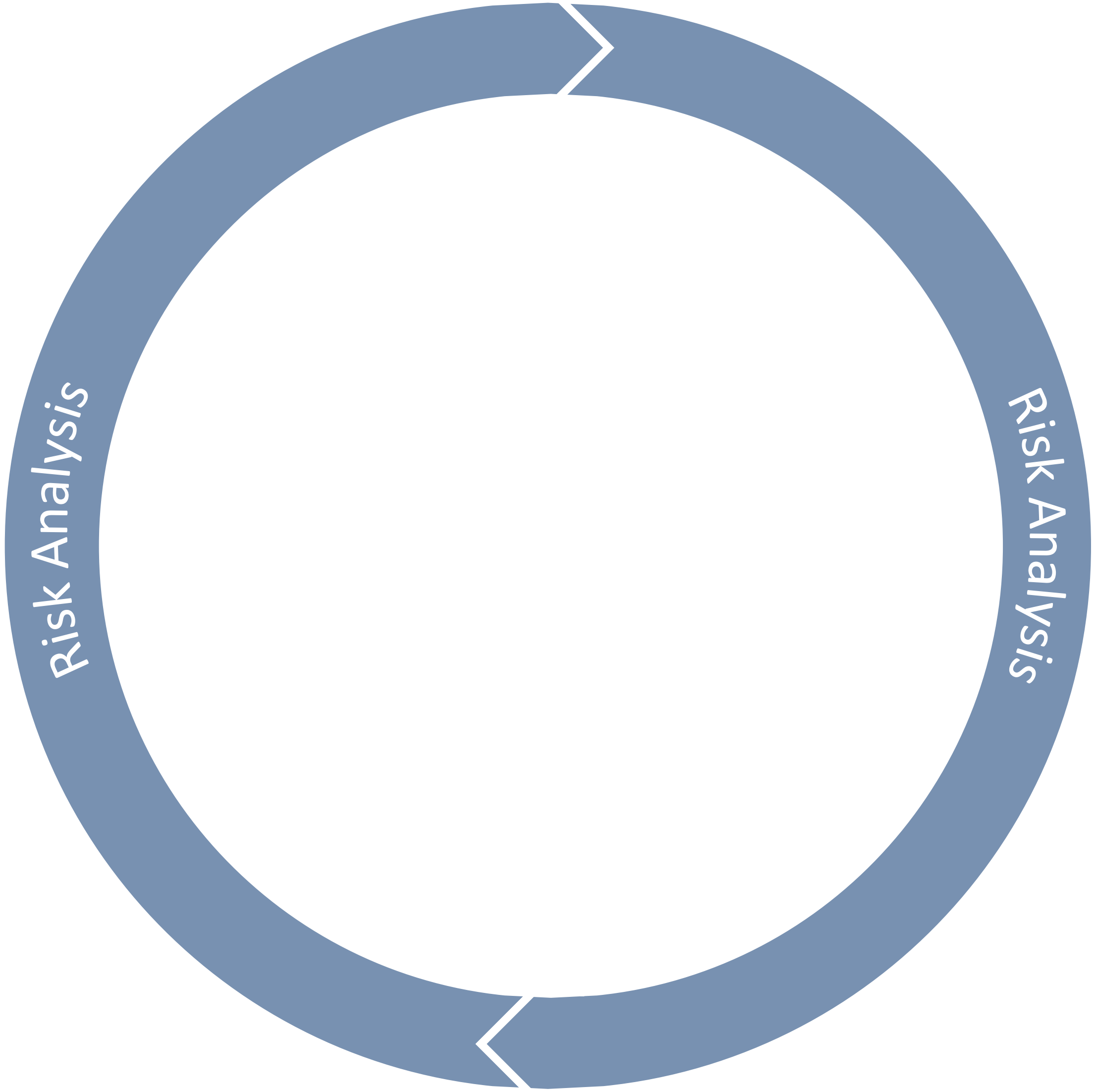


Bringing it All Together – Matt Wilson

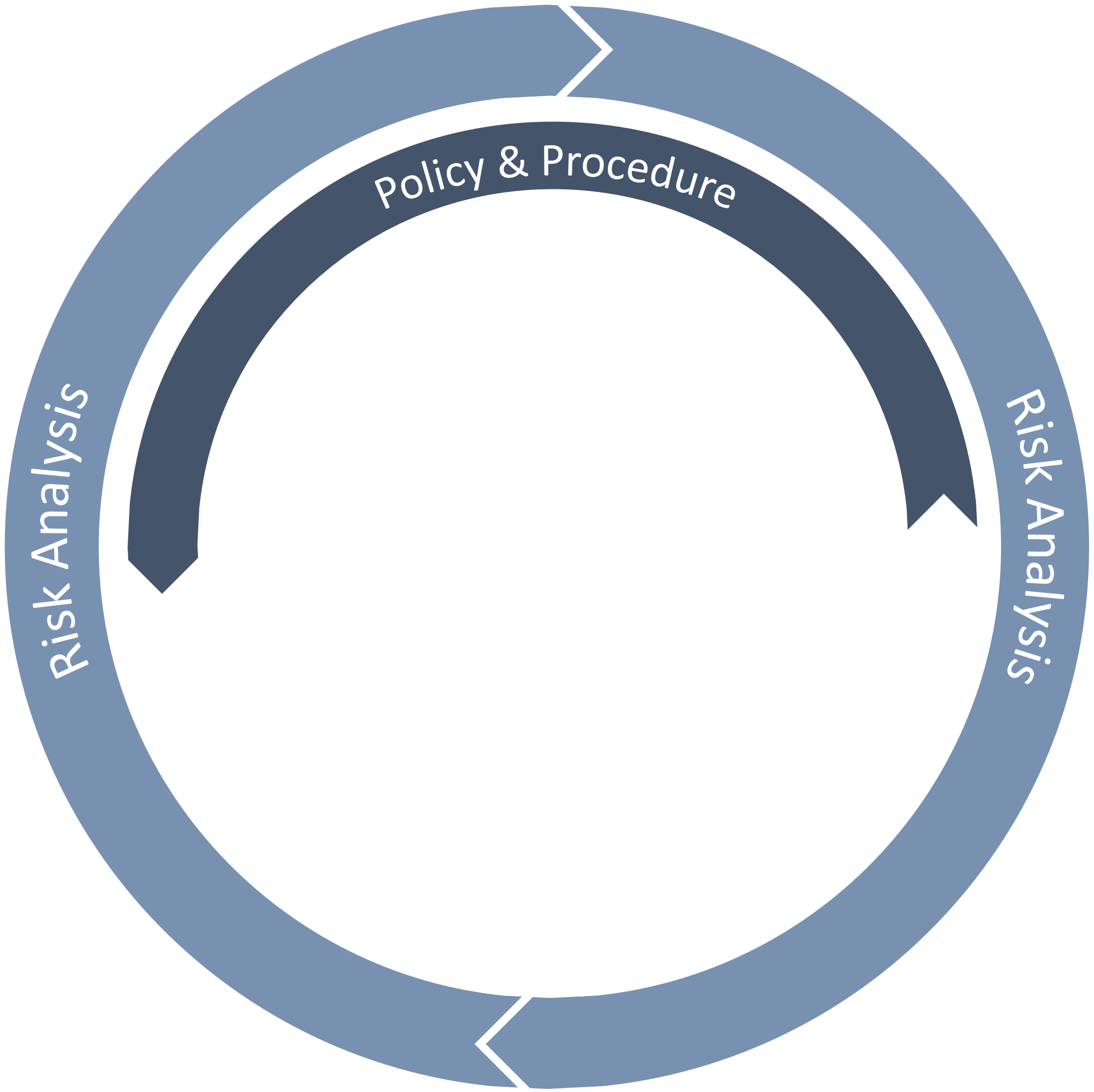
SGR/TAM Roundtable

July 17, 2019

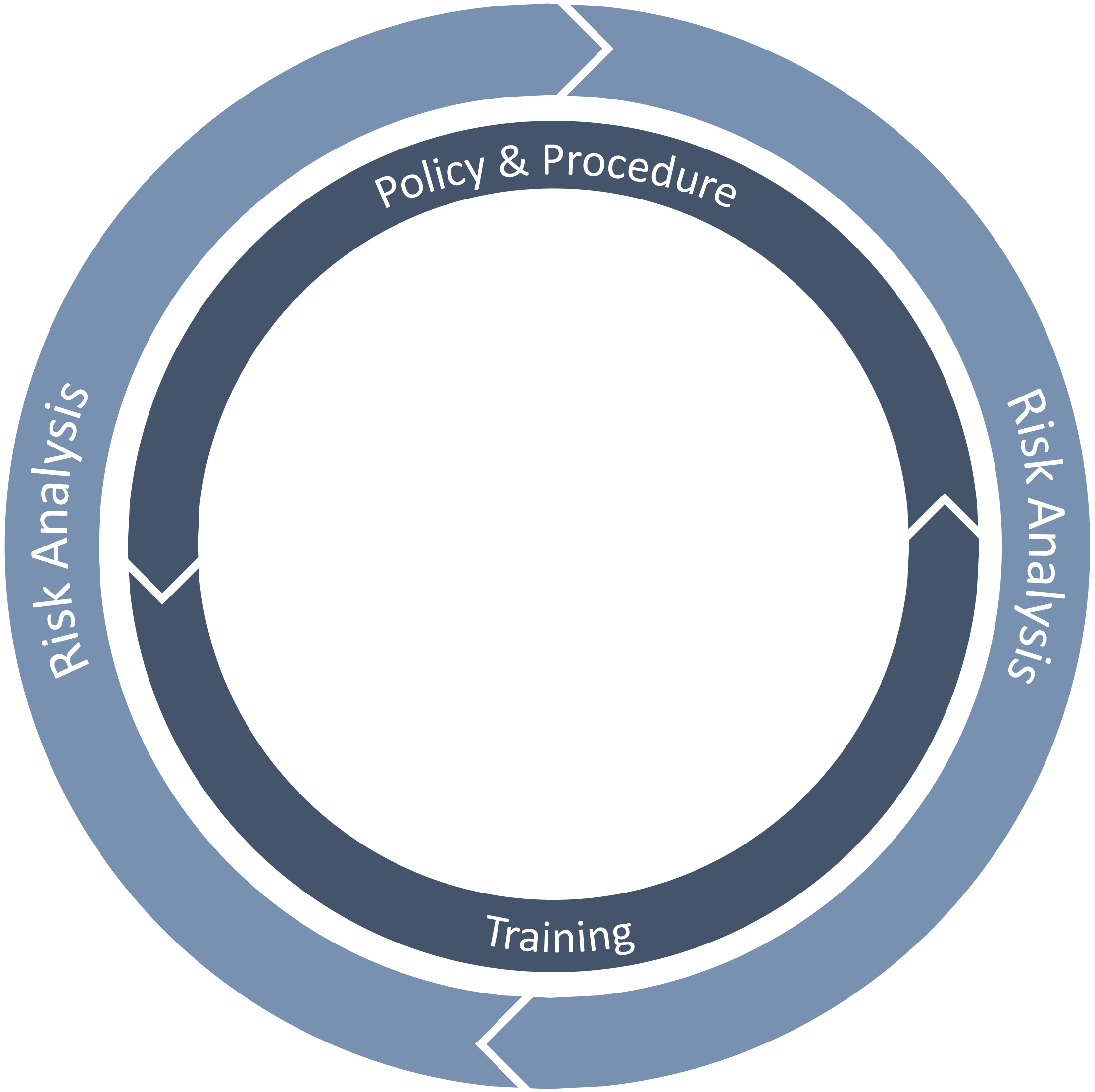
Bringing it All Together



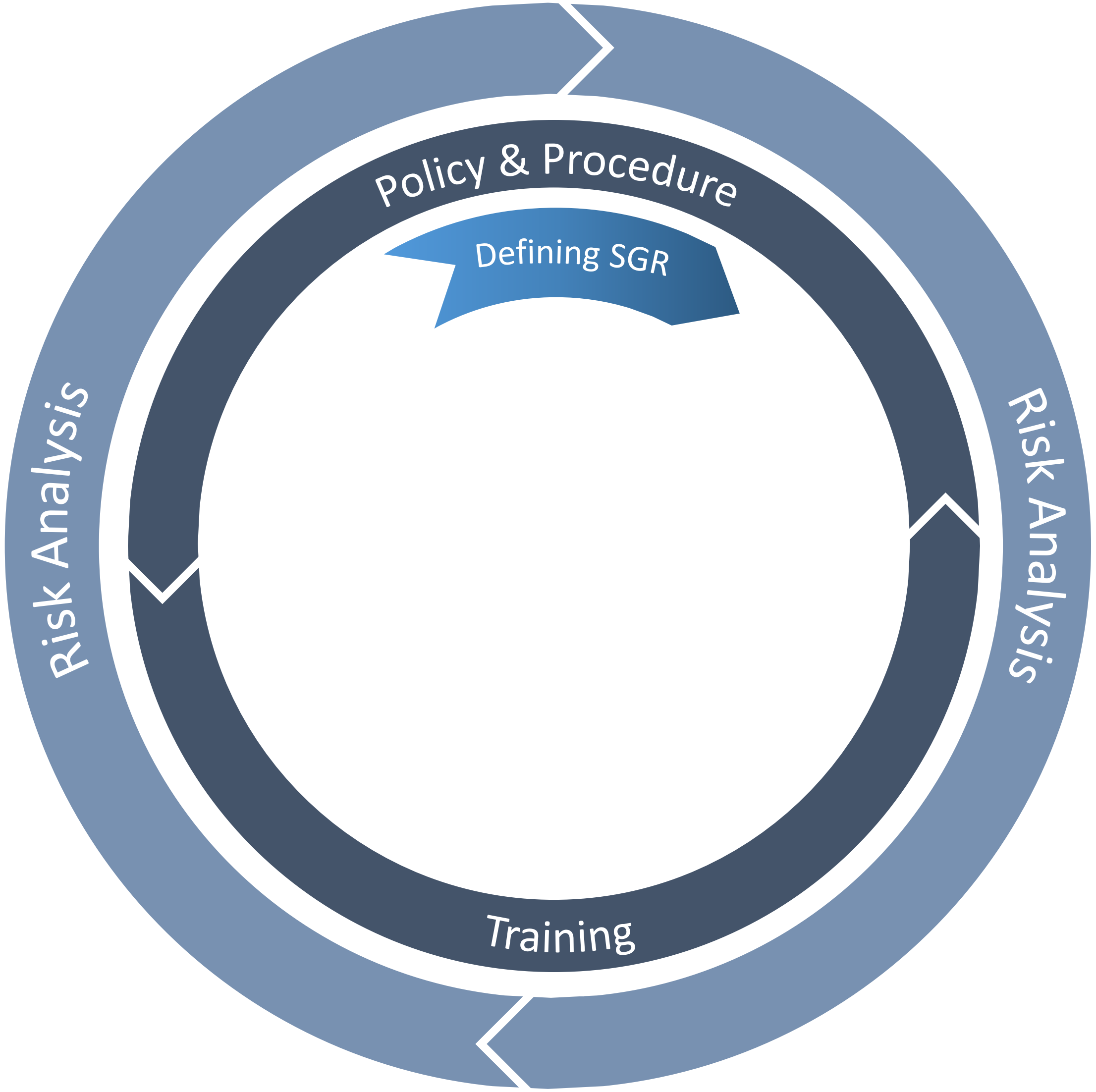
Bringing it All Together



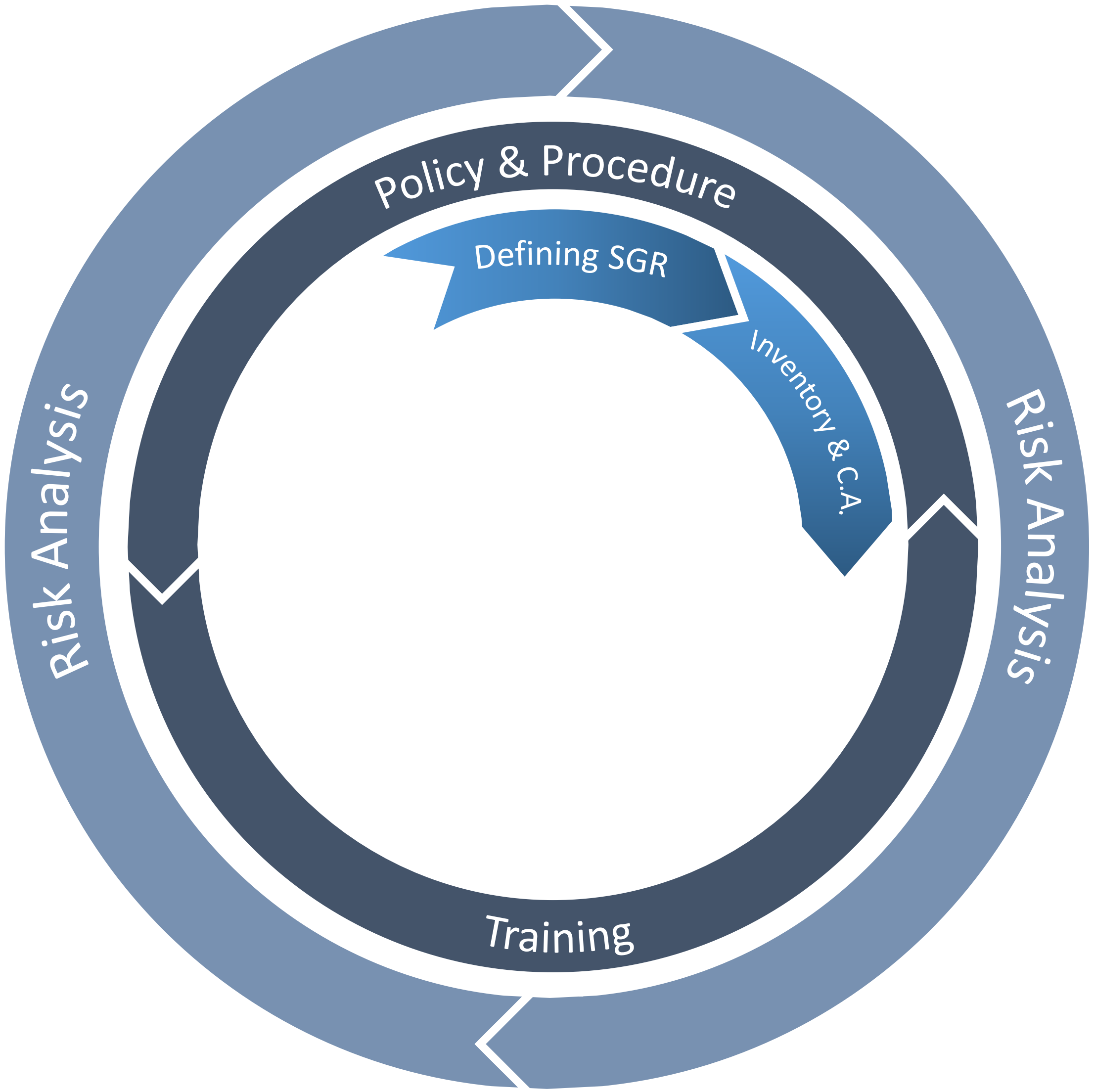
Bringing it All Together



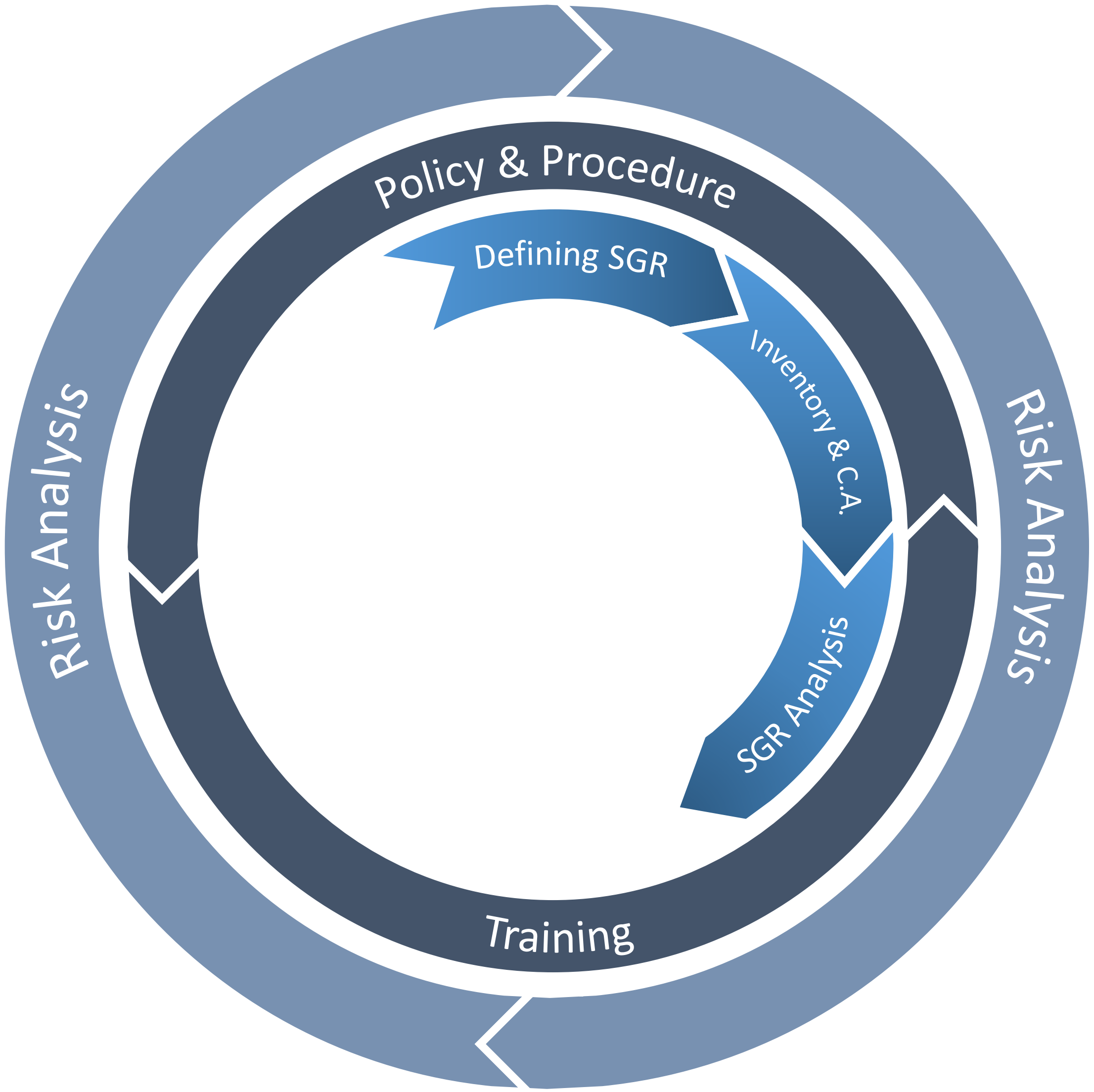
Bringing it All Together



Bringing it All Together



Bringing it All Together



SGR Analysis

Asset Condition
- Based on determined ULB
- Using TERM scale for 1-5
  - 1 = poor
  - Below 2.5 =not SGR
  - 5 = new

=> TERM calculates condition based on asset age and ULB using "decay curves"

Weight: 60%

Liability Due to Failure
- 1 - <$100,000
- 2 - >$100,000
- 3 - >$1,000,000
- 4 - >$5,000,000
- 5 - >$10,000,000

Weight: 20%

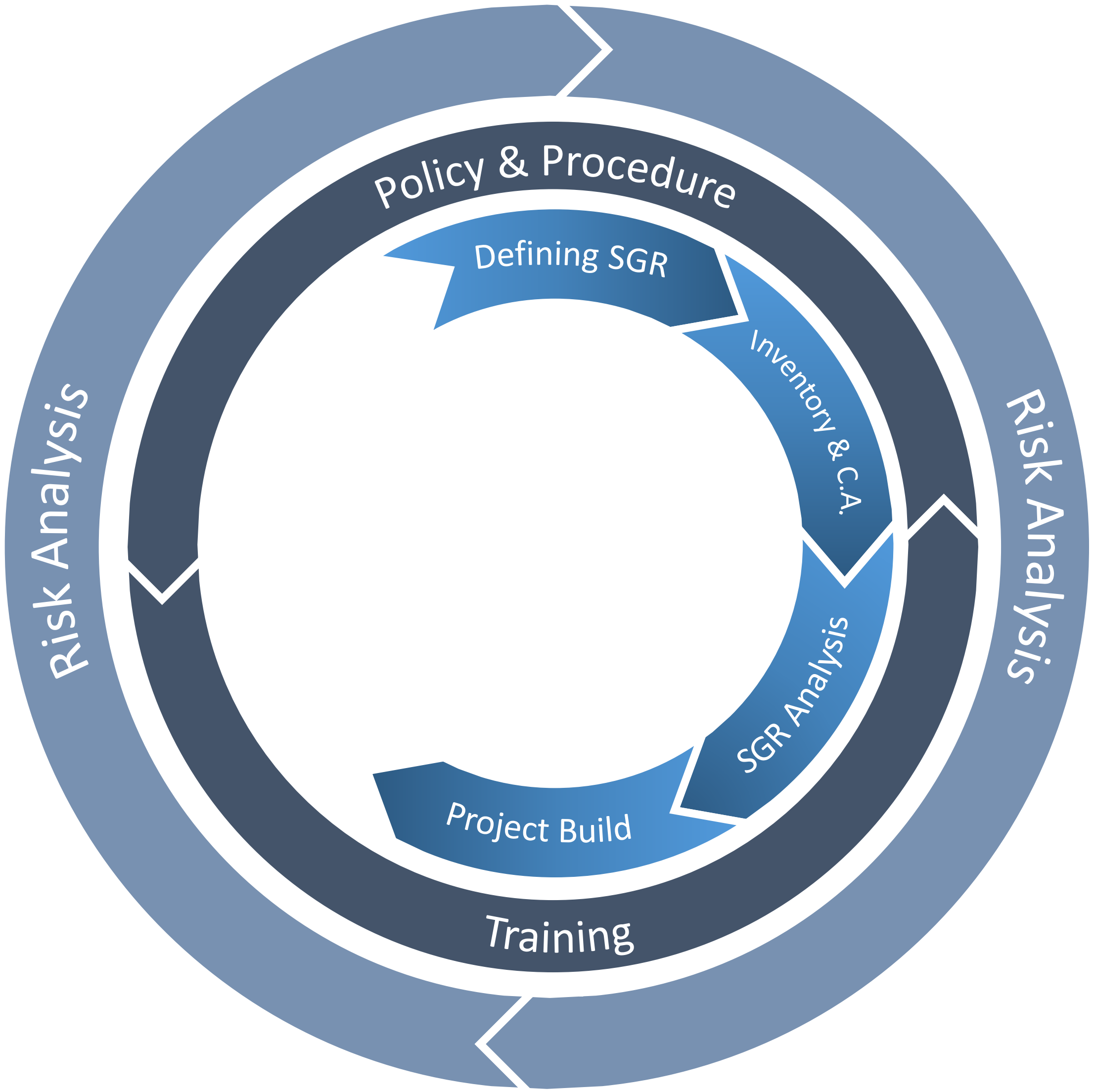
Likelihood of Service Loss due to Failure
- 1 - <10%
- 2 - >10%
- 3 - >25%
- 4 - >50%
- 5 - >75%

Weight: 20%

"Asset Prioritization Score" For each asset per year, changes per year due to asset condition

Asset Description	SGR Score	Investment Cost
Fleet 50 - Rail Car 1	94.7	$4,000,000.00
Fleet 50 - Rail Car 2	94.7	$4,000,000.00
Fleet 50 - Rail Car 3	94.7	$4,000,000.00
Fleet 50 - Rail Car 4	94.7	$4,000,000.00
Fleet 50 - Rail Car 5	94.7	$4,000,000.00
Fleet 50 - Rail Car 6	94.7	$4,000,000.00
Fleet 50 - Rail Car 7	94.7	$4,000,000.00
Fleet 50 - Rail Car 8	94.7	$4,000,000.00
Fleet 50 - Rail Car 9	94.7	$4,000,000.00
Fleet 50 - Rail Car 10	94.7	$4,000,000.00
Fleet 50 - Rail Car 11	94.7	$4,000,000.00
Fleet 50 - Rail Car 12	94.7	$4,000,000.00
Fleet 50 - Rail Car 13	94.7	$4,000,000.00
Fleet 50 - Rail Car 14	94.7	$4,000,000.00
Fleet 50 - Rail Car 15	94.7	$4,000,000.00
Fleet 50 - Rail Car 16	94.7	$4,000,000.00
Fleet 50 - Rail Car 17	94.7	$4,000,000.00
Fleet 50 - Rail Car 18	94.7	$4,000,000.00
Fleet 50 - Rail Car 19	94.7	$4,000,000.00
Fleet 50 - Rail Car 20	94.7	$4,000,000.00
Fixed Route Fleet B - Bus 1	83.6	$640,000.00
Fixed Route Fleet B - Bus 2	83.6	$640,000.00
Fixed Route Fleet B - Bus 3	83.6	$640,000.00
Fixed Route Fleet B - Bus 4	83.6	$640,000.00
Fixed Route Fleet B - Bus 5	83.6	$640,000.00
Fixed Route Fleet B - Bus 6	83.6	$640,000.00
Fixed Route Fleet B - Bus 7	83.6	$640,000.00
Fixed Route Fleet B - Bus 8	83.6	$640,000.00
Fixed Route Fleet B - Bus 9	83.6	$640,000.00
Fixed Route Fleet B - Bus 10	83.6	$640,000.00
Fixed Route Fleet B - Bus 11	83.6	$640,000.00
Fixed Route Fleet B - Bus 12	83.6	$640,000.00
Fixed Route Fleet B - Bus 13	83.6	$640,000.00
Fixed Route Fleet B - Bus 14	83.6	$640,000.00
Fixed Route Fleet B - Bus 15	83.6	$640,000.00
Fixed Route Fleet B - Bus 16	83.6	$640,000.00
Fixed Route Fleet B - Bus 17	83.6	$640,000.00
Fixed Route Fleet B - Bus 18	83.6	$640,000.00
Fixed Route Fleet B - Bus 19	83.6	$640,000.00
Fixed Route Fleet B - Bus 20	83.6	$640,000.00

Bringing it All Together



Project Build

SAMPLE **SAMPLE**

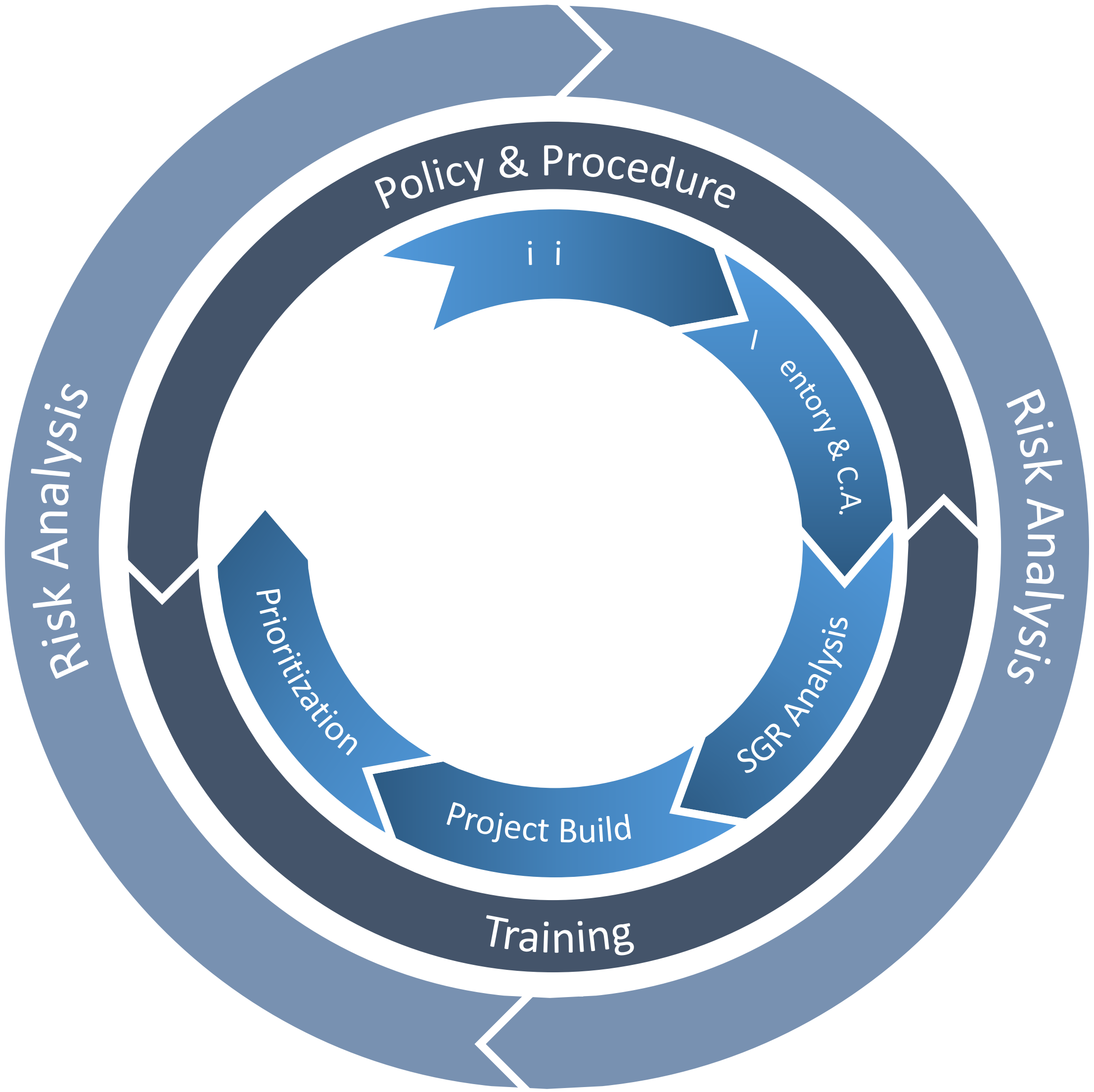
FY20 - Capital Request

Division:	
VP Division	
Department:	
Department Manager:	
Cost Center:	

Fiscal Year

												Regulatory Requirement	Safety & Security	Operational Cost (per year) for new Purchase	Operational Cost (per year) for assets being replaced	Prior Contractual Commitment	Entered by FP&A: TAM Scoring	Entered by FP&A: Agency Goal	Project Score
#	Project Manager	Project Name	Fixed Asset Category (Choose from Drop-down List)	Contract #	FY20	FY21	FY22	FY23	FY24	Total FY18-FY24	Comments/Justification:	Y / N	Rating	$	$	Y / N	#	Goal #	
1	Bill Thomas	Replace Rail Fleet 50	Revenue Vehicles: Rail Cars	n/a	80,000,000	-	-	-	-	$ 80,000,000	Project Justification	S, F	F	$ 1,500,000	$ 1,800,000	N	94.7	2,3,7	1914
2	Jean Roberts	Overhaul Fixed Route Fleet B	Revenue Vehicles: Bus	n/a	4,000,000	4,000,000	4,000,000	-	-	$ 12,000,000	Project Justification	S, F	C	$ 740,000	$ 800,000	N	83.6		1652
3	Jessie Banks	Replace Fixed Route Fleet B	Revenue Vehicles: Bus	n/a	12,800,000	12,800,000	12,800,000	-	-	$ 38,400,000	Project Justification	S, F	C	$ 700,000	$ 800,000	N	83.6		1482
3	Jessie Banks	BRT SW Project -New CNG Buses	Revenue Vehicles: Bus	n/a	9,600,000	-	-	-	-	$ 9,600,000	Project Justification	C, S	A	$ 525,000	$ -	N	0		1052
3	TJ Pardia	BRT SW Project - New Stops & Amenities	Equipment: Amenities	n/a	144,000	-	-	-	-	$ 144,000	Project Justification	C, S	A	$ 80,000	$ -	N	0		1052
TOTALS					$ 106,544,000	$ 16,800,000	$ 16,800,000	$ -	$ -	$ 140,144,000				$ 3,545,000	$ 3,400,000				

Bringing it All Together

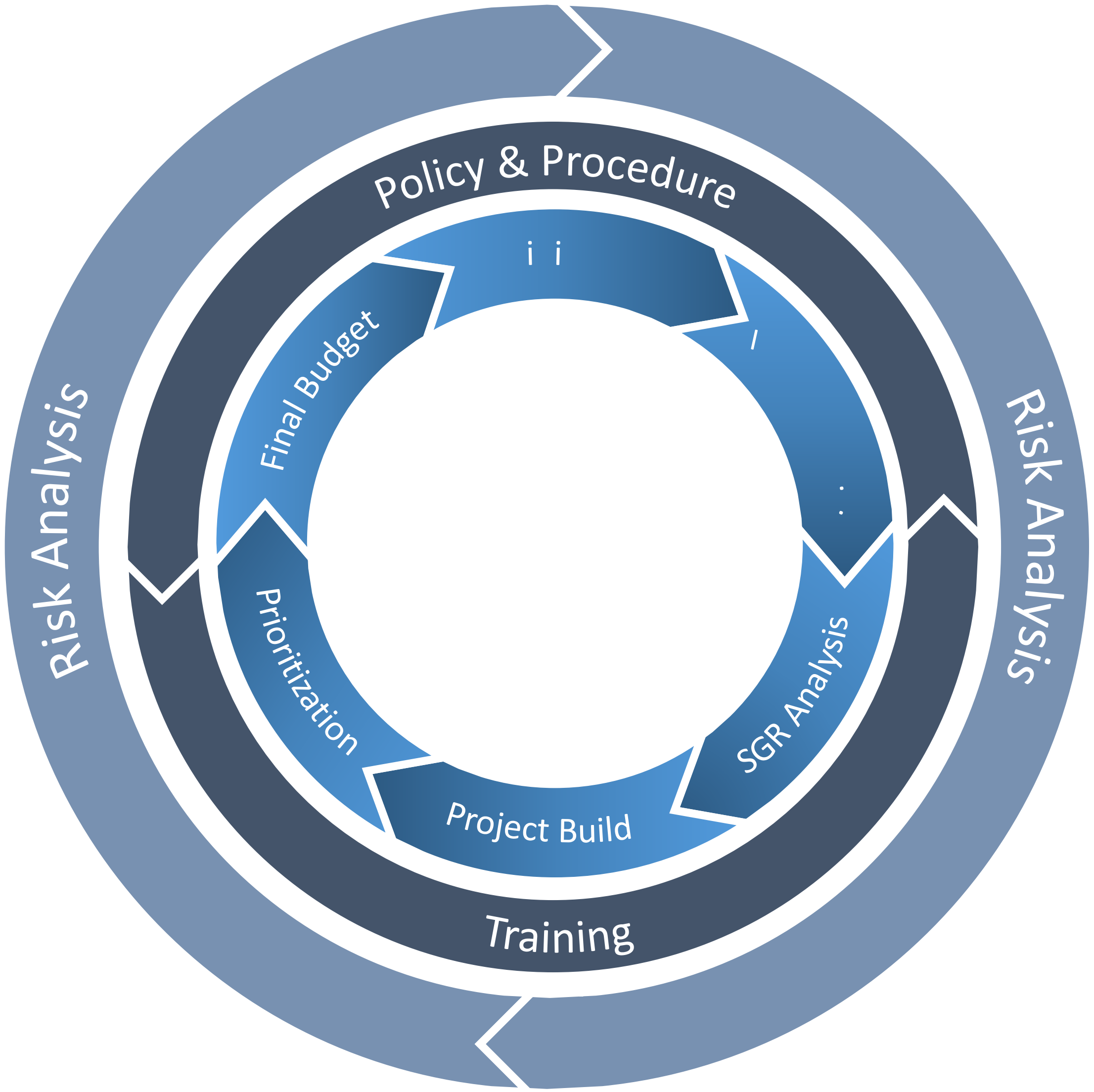


Project Prioritization

Capital Budget Avaialable:	$100,000,000
Additional Oprating Budget Available:	$2,000,000

Priority Rank	Project #	Project Description	Project Score (0-2000)	Asset Group	Qty	Useful Life (Yrs)	Capital Cost	Lifecycle Cost	Change in Operational Cost (Per Year)	Additional Revenue Creation (Per Year)
	TAM-1	Replace Rail Fleet 50 with New Vehicles	1914	RF - 50	20	30	80,000,000	360,000,000	(300,000)	0
	TAM-2	Purchase New IT Hyper Convergance Arrays to Replace Current Swerver/Switch for Primary Data Storage Site	1842	IT - S1	4	5	960,000	100,000	8,000	0
	TAM-3	Full Overhaul of Current Fixed Route Fleet B - Diesel Buses	1652	FR - B	20	7	4,000,000	4,900,000	(60,000)	0
	TAM-4	Purchase New CNG Buses to Replace Part of Fixed Route Fleet B	1482	FR - B	20	12	12,800,000	4,800,000	(100,000)	0
	TAM-5	BRT SW Project - Purchase New CNG Buses for Route	1052	BRT - E	15	12	9,600,000	6,300,000	525,000	200,000
	TAM-6	BRT SW Project - New Stops and Associated Amenities for Route	1052	BRT - E	8	10	144,000	800,000	80,000	0
	TAM-7	BRT SW Project - Infrastructure Associated with Routes including Signal Prioritization	1052	BRT - E	1	15	5,000,000	750,000	50,000	0
	TAM-8	Purchase 6 New Autonomous Vehicles for new Route	987	N/A	20	5	7,000,000	5,000,000	1,000,000	150,000
	TAM-9	Purchase New IT Hyper Convergance Arrays to Replace Current Swerver/Switch for Secondary Data Storage Site	762	IT - S2	4	5	960,000	100,000	8,000	0
	TAM-10	City Beautification Project - Replacing Trash Cans Throughout the Constituency	452	CTY	2000	10	1,200,000	20,000,000	1,000,000	0

Bringing it All Together



Finalizing a Budget

Capital Budget Avaialable:	$100,000,000
Additional Oprating Budget Available:	$2,000,000

Priority Rank (1Hi - 5Lo)	Project #	Project Description	Project Score (0-2000)	Asset Group	Qty	Useful Life (Yrs)	Capital Cost	Lifecycle Cost	Change in Operational Cost (Per Year)	Additional Revenue Creation (Per Year)
1	TAM-1	Replace Rail Fleet 50 with New Vehicles	1914	RF - 50	20	30	80,000,000	360,000,000	(300,000)	0
2	TAM-3	Full Overhaul of Current Fixed Route Fleet B - Diesel Buses	1652	FR - B	20	7	4,000,000	4,900,000	(60,000)	0
3	TAM-2	Purchase New IT Hyper Convergence Arrays to Replace Current Server/Switch for Primary Data Storage Site	1842	IT - S1	4	5	960,000	100,000	8,000	0
4	TAM-5	BRT SW Project - Purchase New CNG Buses for Route	1052	BRT - E	15	12	9,600,000	6,300,000	525,000	200,000
4	TAM-6	BRT SW Project - New Stops and Associated Amenities for Route	1052	BRT - E	8	10	144,000	800,000	80,000	0
4	TAM-7	BRT SW Project - Infrastructure Associated with Routes including Signal Prioritization	1052	BRT - E	1	15	5,000,000	750,000	50,000	0
							99,704,000		303,000	200,000