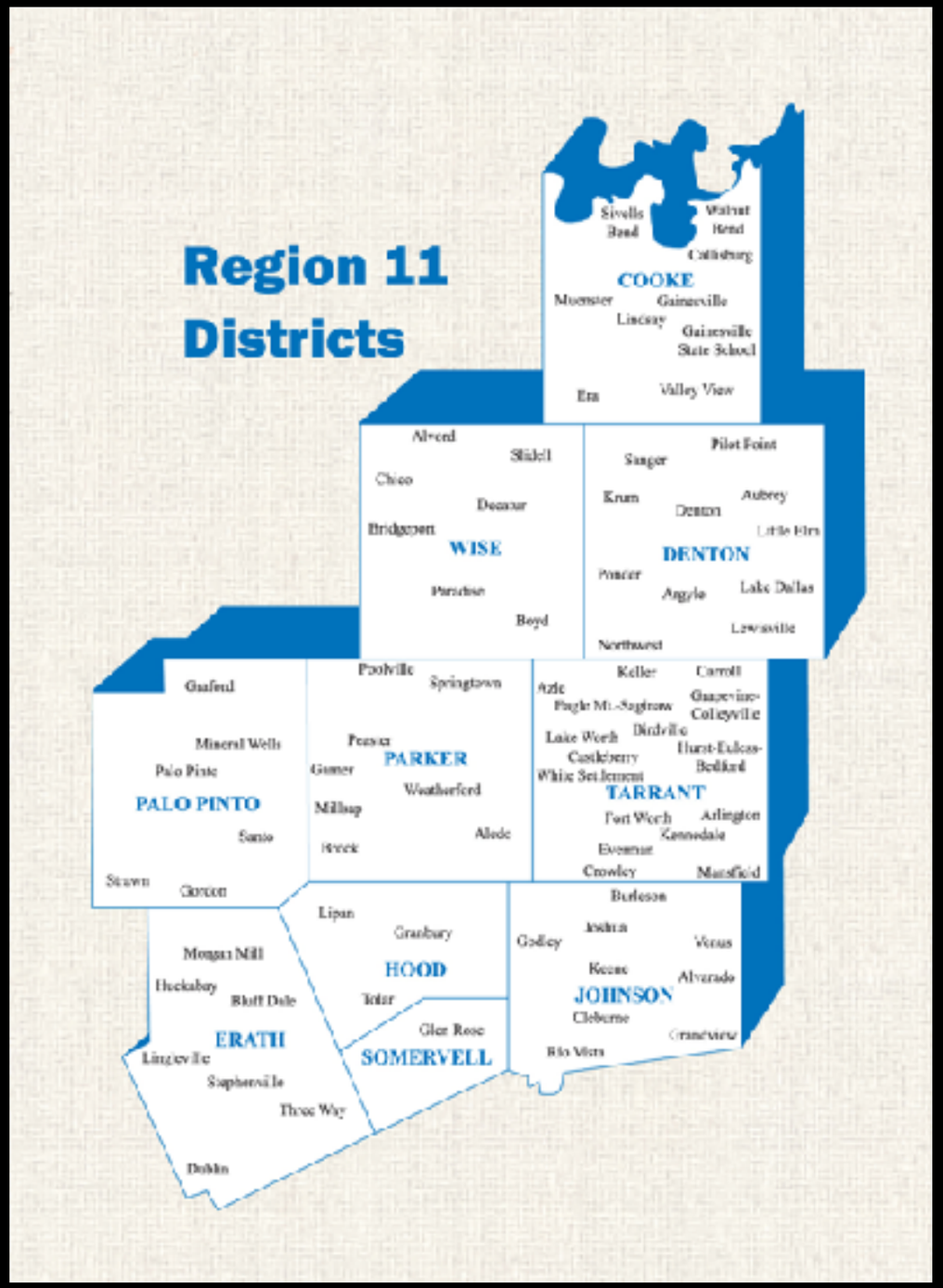
FIBER I I

Fiber Infrastructure for Broadband Enhancement in Region I I

ESC Region I
August Technology Meeting
Edinburg, Texas

Who Is ESC11?

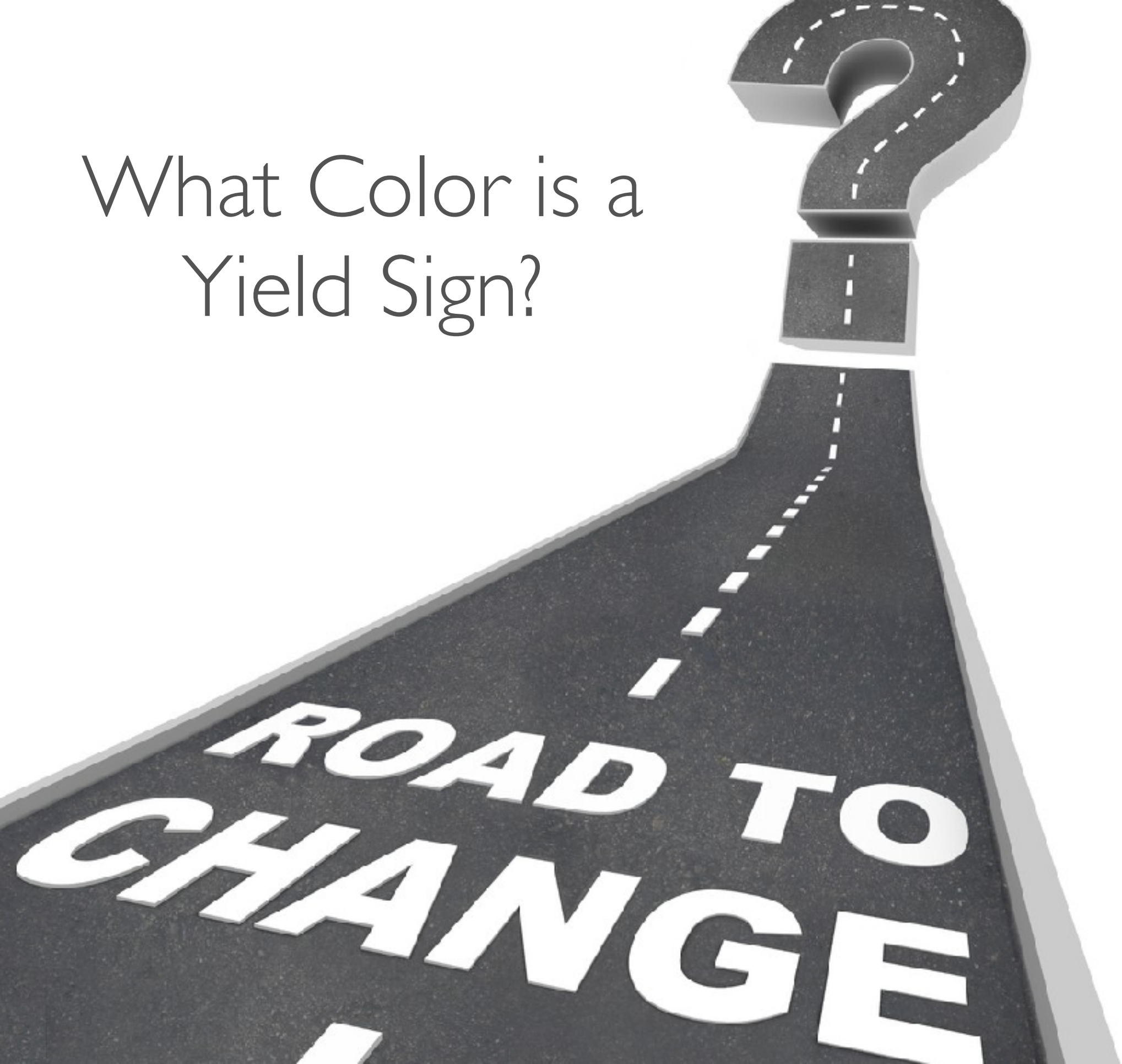
- 10 Counties
- 77 School Districts (ISDs)
- 70+ Charters
- Roughly 600,000 Students
- Smallest - 40 Students
  - Bluff Dale
  - Three Way
  - Sivells Bend
- Largest - 80K Students
  - Fort Worth
  - Arlington
  - Denton
- **69%** Discount per E-Rate



WHY?

SB507 Storage
Shared Services

What Color is a Yield Sign?



What Color is a Yield Sign?

In road transport, a **yield** or give way **sign** indicates that each driver must prepare to stop if necessary to let a driver on another approach proceed. A driver who stops or slows down to let another vehicle through has yielded the right of way to that vehicle.

Yield sign - Wikipedia
https://en.wikipedia.org/wiki/Yield_sign

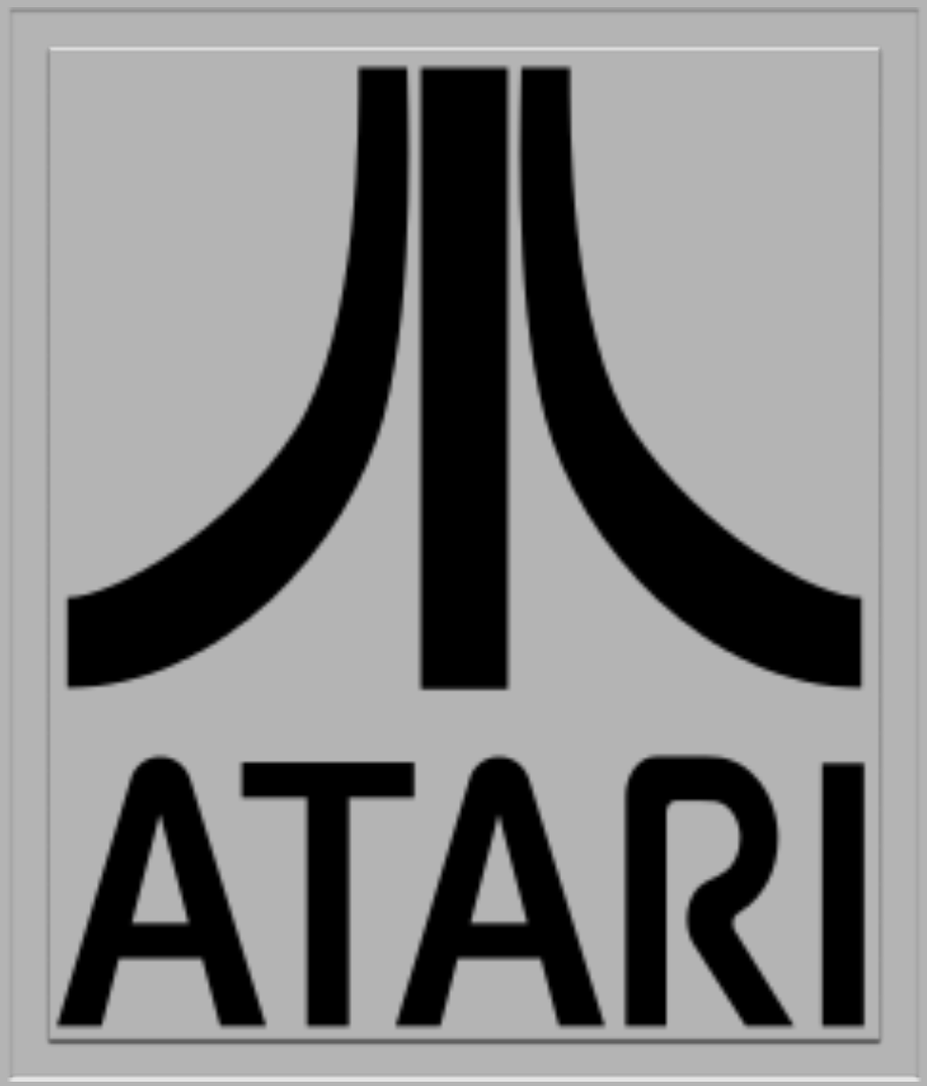
What Color is a Yield Sign?

Early design (1950-1956) | Second version (1956-1961) | Third version (1961-1971) | Modern design as agreed to in 1971

OUR APPROACH

OPTION 1
Circuits, Limitations
EASY, COMMON

OPTION 2
Dark Fiber, Flexibility
HARD, UNKNOWN



"Everyone who's ever taken a shower has an idea. It's the person who gets out of the shower, dries off and does something about it who makes a difference."

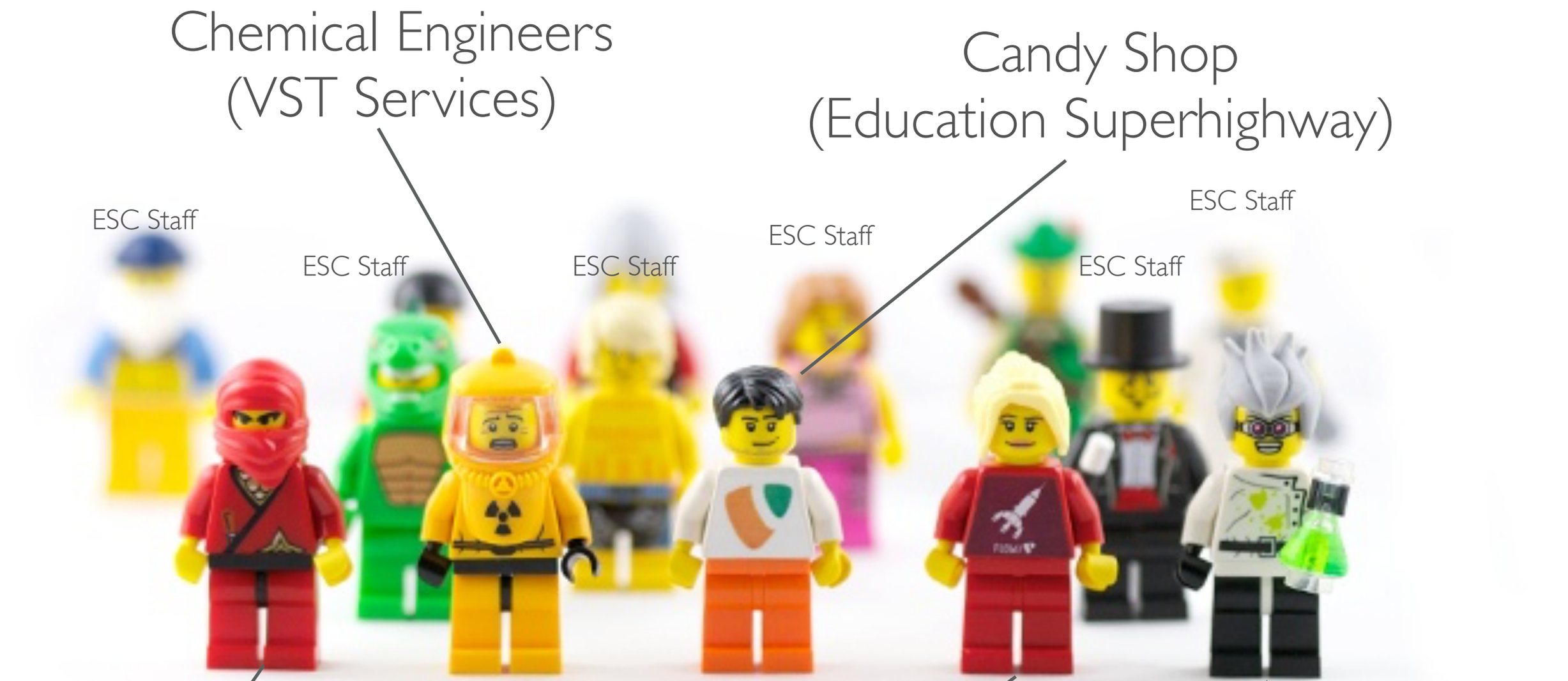
-Nolan Bushnell,
Inventor of Atari and Chuck E Cheese

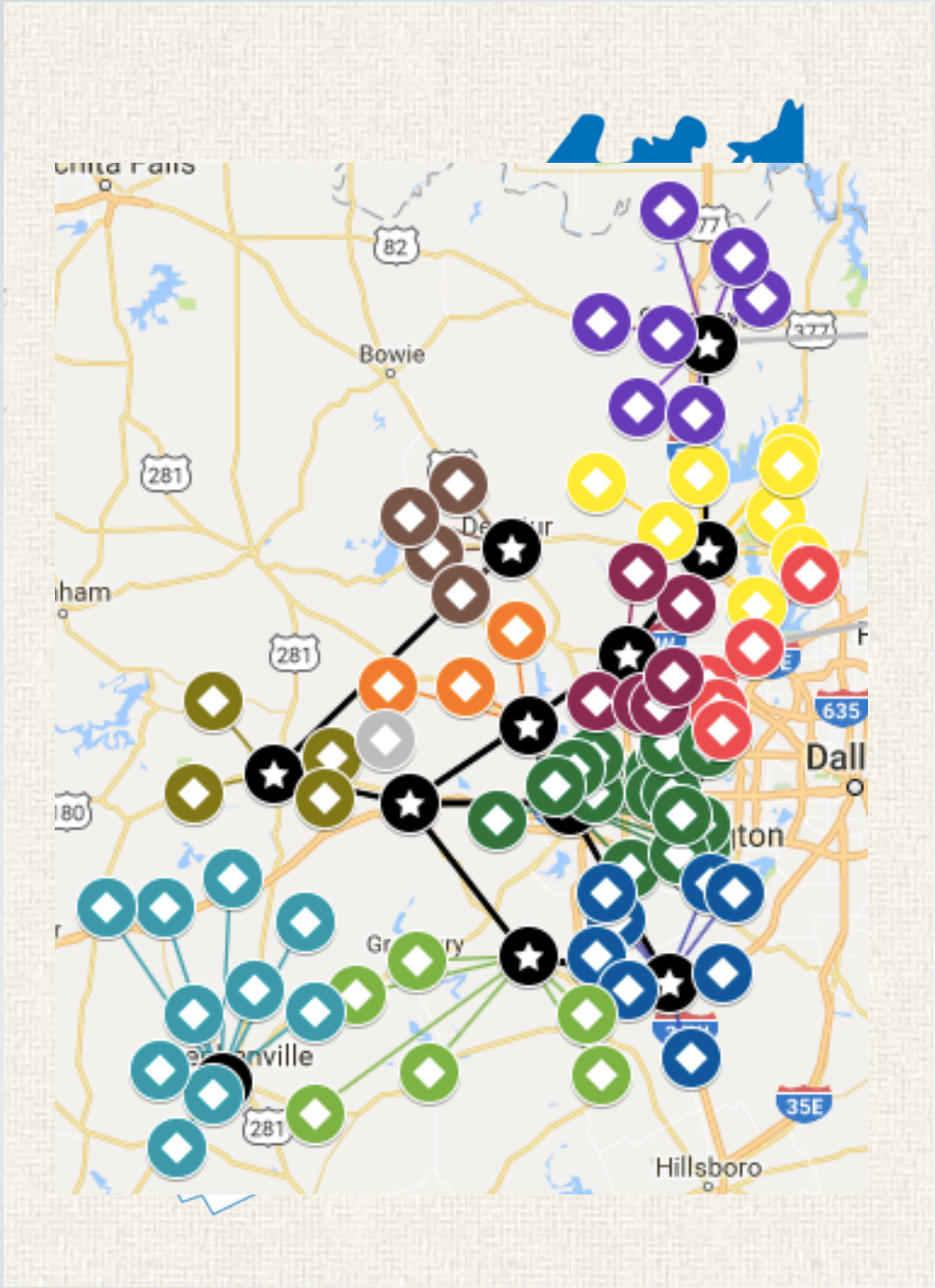
Classroom Connection Initiative

1) 100Kbps per students
2) Wireless Connectivity
3) Less then $3.00 per MB

"Learning is no longer limited by bricks and mortar –
it is expanded exponentially by bytes and bandwidth."
- March 2016

ASSEMBLE THE TEAM



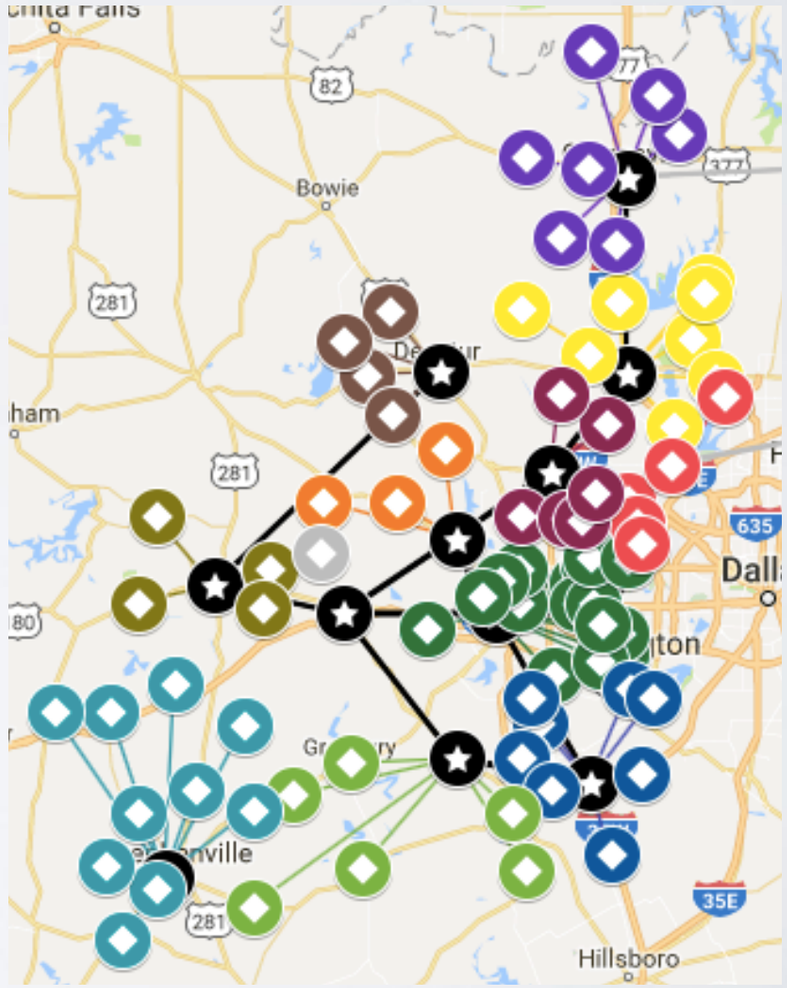


FIBER11 Results

- -100Gb Backbone
- -10Gb Connections
- -11+ Hub Sites
- -53 Districts (Phase 1)
- -200Gb Internet Access

FIBER11 Costs

- Special Construction for Dark Fiber
- Core and Hub Site Equipment
- End Point Equipment
- Monthly Recurring Charges for Fiber
- Monitoring Equipment/Services
- Managed Services
- Project Management
- E-Rate Services



FIBER11 Costs

$ 21,000,000	-	Special Construction for Dark Fiber
3,500,000	-	Core and Hub Site Equipment
640,000	-	End Point Equipment
300,000	-	Monthly Recurring Charges for Fiber
75,000	-	Monitoring Equipment/Services
215,000	-	Managed Services
100,000	-	Project Management
+ 80,000	-	E-Rate/Legal Services
$ 25,910,000		

$ 17,753,700	69% E-Rate Eligible Discount
2,100,000	10% State Match for Special Construction
2,100,000	10% FCC to Match State
$ 21,953,700	*Total Discount*

$3,956,300 Total Buildout and Year 1
$238,700 Year 2+

FIBER I I

Fiber Infrastructure for Broadband Enhancement in Region I I

ESC Region I
August Technology Meeting
Edinburg, Texas

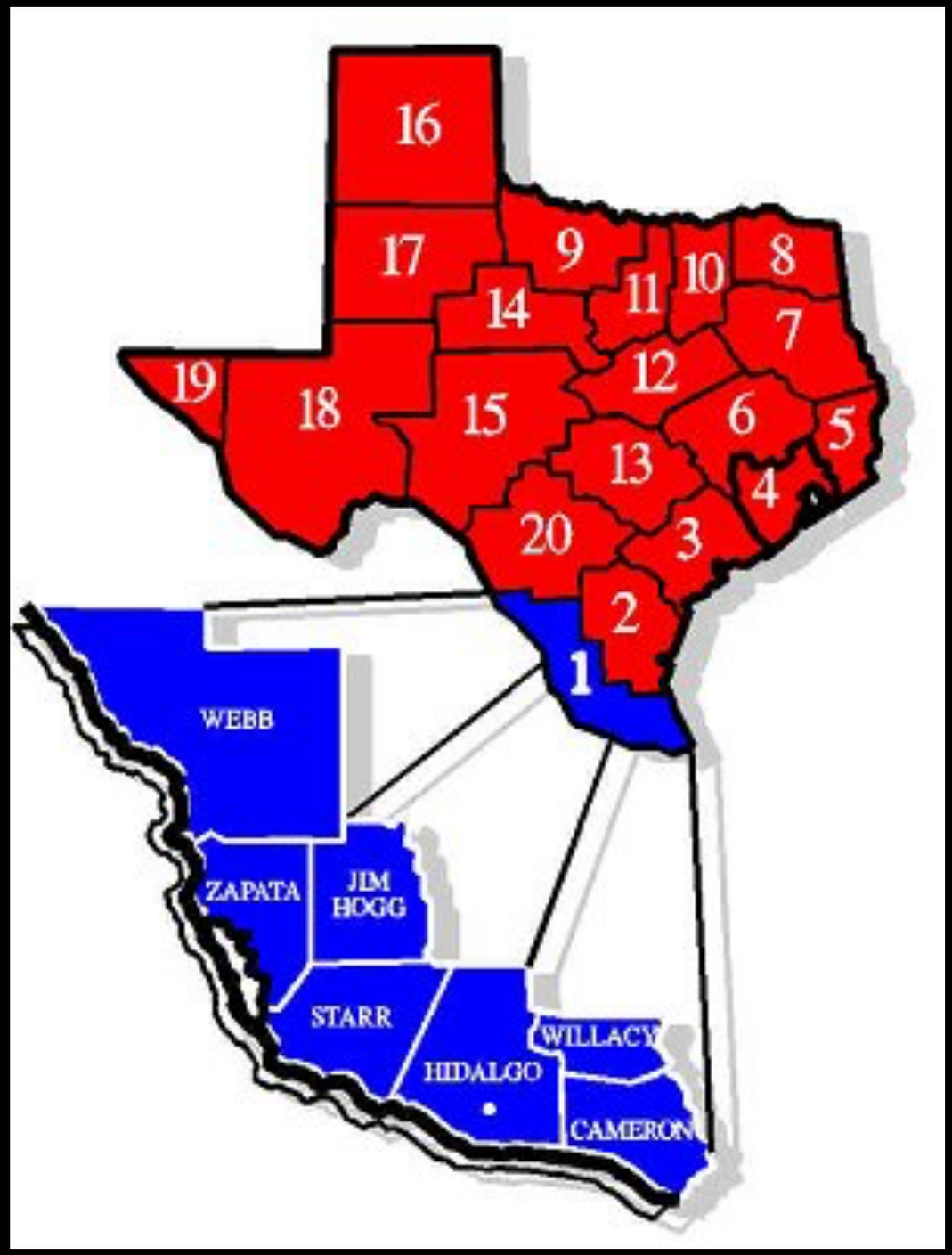
FIBER I

Fiber Infrastructure for Broadband Enhancement in Region I

ESC Region I
August Technology Meeting
Edinburg, Texas

Who Is ESC1?

- 7 Counties
- 37 School Districts (ISDs)
- Roughly 425,000 Students
- Smallest - 250 Students
  - San Isidro
  - Webb
  - San Perlita
- Largest - 49K Students
  - Brownsville
  - United
  - Edinburg
- **89%** Discount per E-Rate



FIBER I Costs

$ 21,000,000	-	Special Construction for Dark Fiber
3,500,000	-	Core and Hub Site Equipment
640,000	-	End Point Equipment
300,000	-	Monthly Recurring Charges for Fiber
75,000	-	Monitoring Equipment/Services
215,000	-	Managed Services
100,000	-	Project Management
+ 80,000	-	E-Rate/Legal Services
$ 25,910,000		

$ 22,899,700	89% E-Rate Eligible Discount
1,155,000	5.5% State Match for Special Construction
1,155,000	5.5% FCC to Match State
$ 25,209,700	*Total Discount*

$700,300 Total Buildout and Year 1
$84,700 Year 2+

Direct Connections

Google, Microsoft, Amazon, etc.

Shared Services

Storage, Resources, Co-Location

Statewide Connectivity

Working with LEARN Network

rezaefar.ir

Disaster Recovery

Phone

Wireless

WHAT ELSE CAN WE DO?

Virtual Desktops

THE PROCESS

June 19 – August 1, 2017	Verify/Confirm Participation & Termination Address
	Send Address Forms to Districts
August 1 – September 1, 2017	Prepare RFP Document – IA, Fiber, Network Eqpt
August 1, 2017	Create Region Consortium Entity Number
	Send Letter of Agency Documents to Districts
September 1, 2017	District TAC Meeting Presentation – Estimated Cost
September 1-31, 2017	Districts add Consortium to E-Rate EPC Profile
October 1, 2017	Submit RFP
December 1-31, 2017	Review and Evaluate RFP Responses
January 1-31, 2018	Award Contracts
January 1-31, 2018	Update Member Districts with Final Cost Structure
	GO/NO GO DECISION

THE PROCESS

February 1 – April 1, 2018	Review and Prepare FCC Form 471
May 1, 2018	Submit FCC Form 471 (FY 2018)
June 1 – December 31, 2018	FCC Form 471 Review Process
January 1 – March 31, 2019	Estimated Approval Time Frame
April 1, 2019	Begin Implementation
May 1, 2019	Submit FCC Form 471 (FY2019) – MRC + any New District Adds
July 1, 2019	Begin Invoices to Member Districts
June 30, 2020	Complete Implementation