



SPARK Executive Committee
Connectivity and Efficiency &
Modernization Portfolio
Recommendations

April 15th, 2022

Meeting purpose:
Informational
update with initial
recommendations
for 2 Advisory Panels

Agenda for today

Advisory Panel status update

Connectivity portfolio recommendations

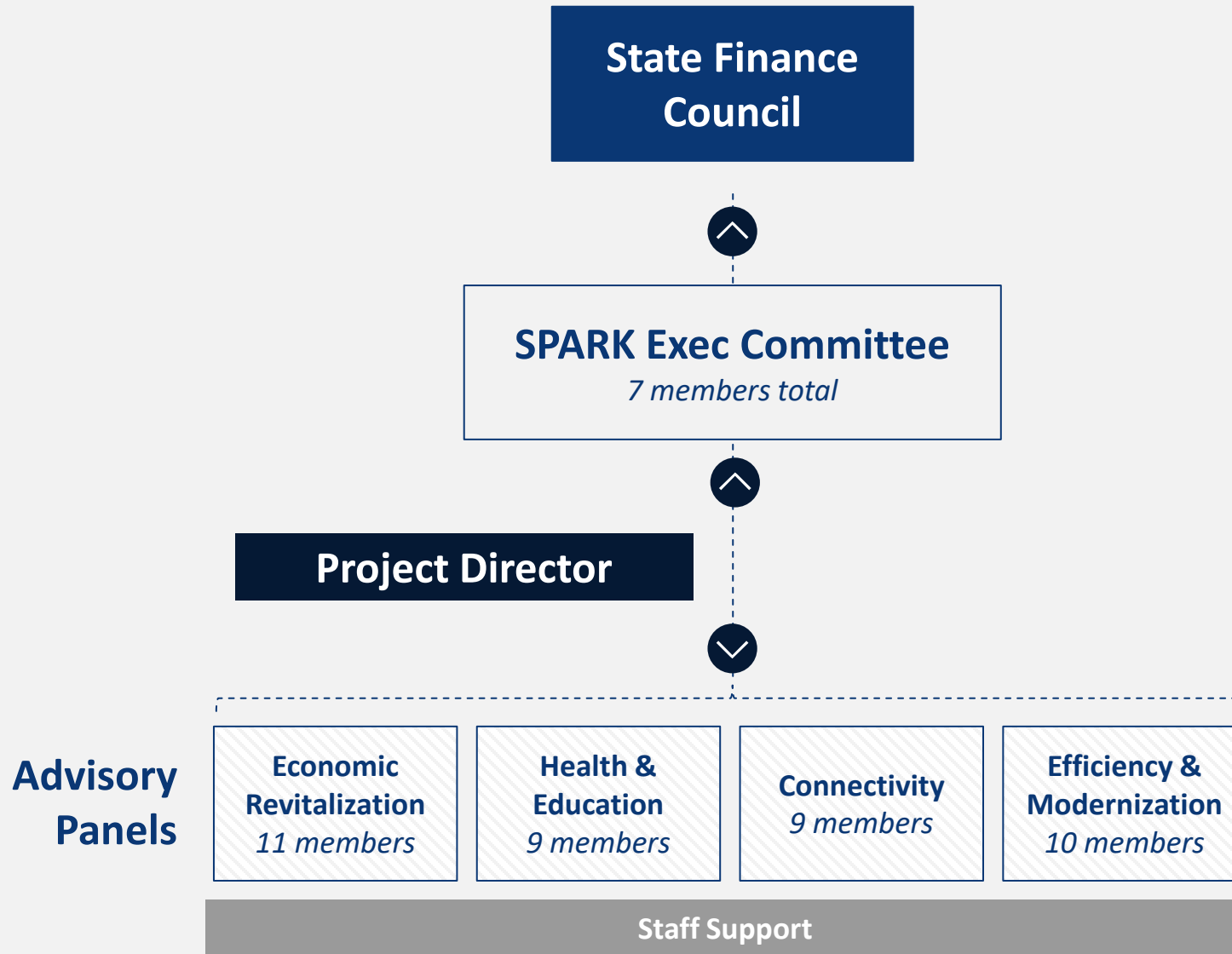
Efficiency & Modernization portfolio
recommendations

Other SPARK updates


Next steps

Advisory Panel status update

Recall | SPARK structure



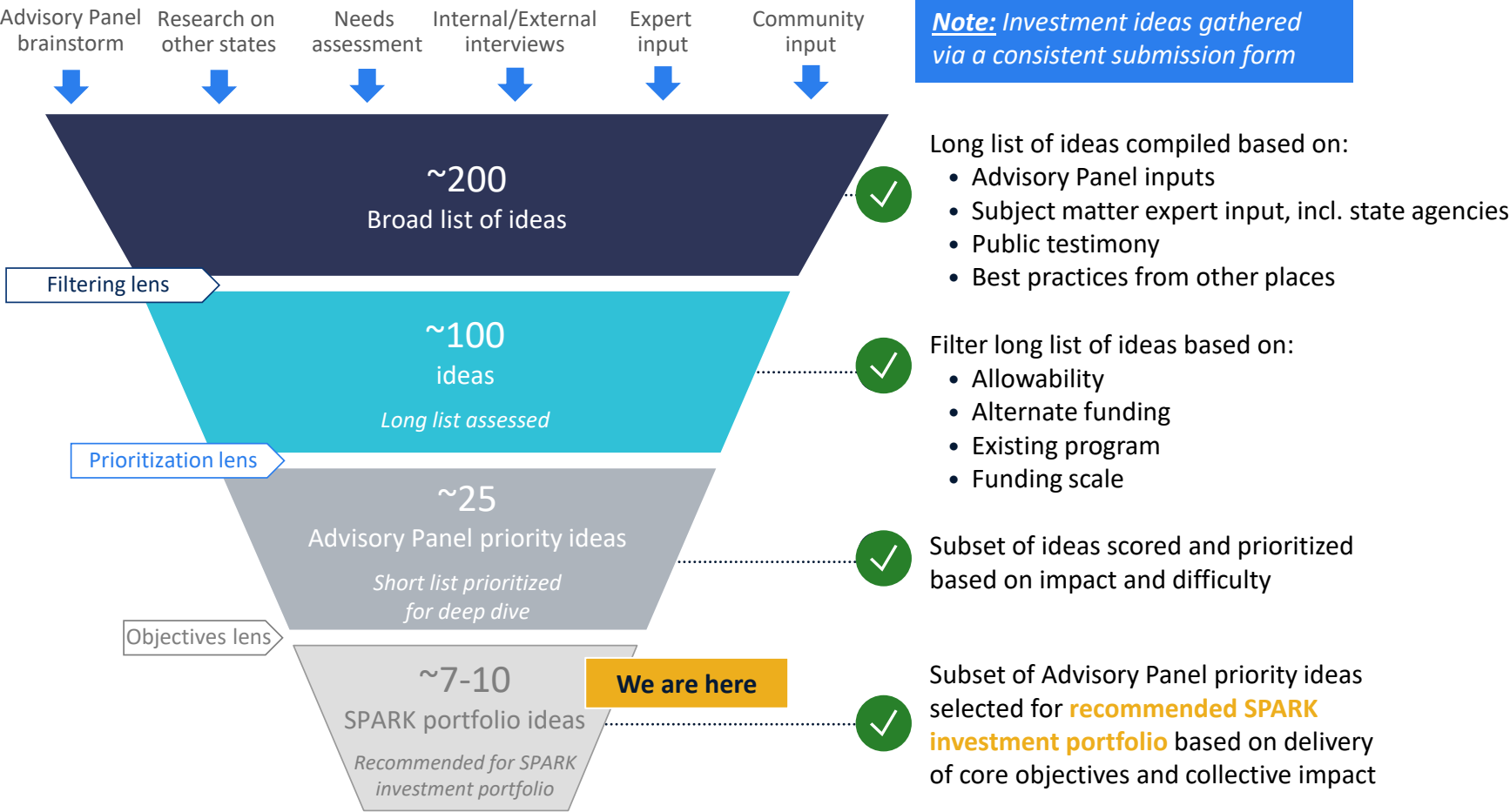
Advisory Panels gather, evaluate, and recommend priority areas for investment to the SPARK Executive Committee, with the Project Director setting direction through a consistent process designed and facilitated by the SPARK Director and approved by the SPARK Executive Committee



Advisory Panels have
relied on the SPARK
guiding principles
throughout the
portfolio
development process

- **Prioritize sustainable programs & investments** through one-time use of funds vs substantial expansion of existing services
- **Combine with / leverage local and agency funds** to maximize use of discretionary funds
- **Foster long-term systemic impact** for Kansans
- **Consider equitable opportunities** and outcomes
- **Enable flexibility within investment strategies** (e.g., in case of emerging needs, changing federal landscape)
- **Ensure results are measurable** to enable tracking & transparency

We are nearing the conclusion of the Advisory Panel process



Note: Investment ideas gathered via a consistent submission form

Objective for final Advisory Panel meetings:

Finalize recommended SPARK investment portfolio to share with SPARK Executive Committee, including:

- Recommended program areas for investment
- Minimum and target funding scenarios
- High fit ideas, as appropriate

SPARK Executive Committee will meet three times to review Advisory Panel recommendations and select programs for investment

Portfolio Recs (1/2)

Today

Informational meeting

Objective: Advisory Panel Chairs to present proposed portfolios for **Connectivity** and **Efficiency & Modernization**

Today's focus

Portfolio Recs (2/2)

April 18, 3-5 pm CT

Informational meeting

Objective: Advisory Panel Chairs to present proposed portfolios for **Health & Education** and **Economic Revitalization**

Aggregate Portfolio

Following portfolio recommendations

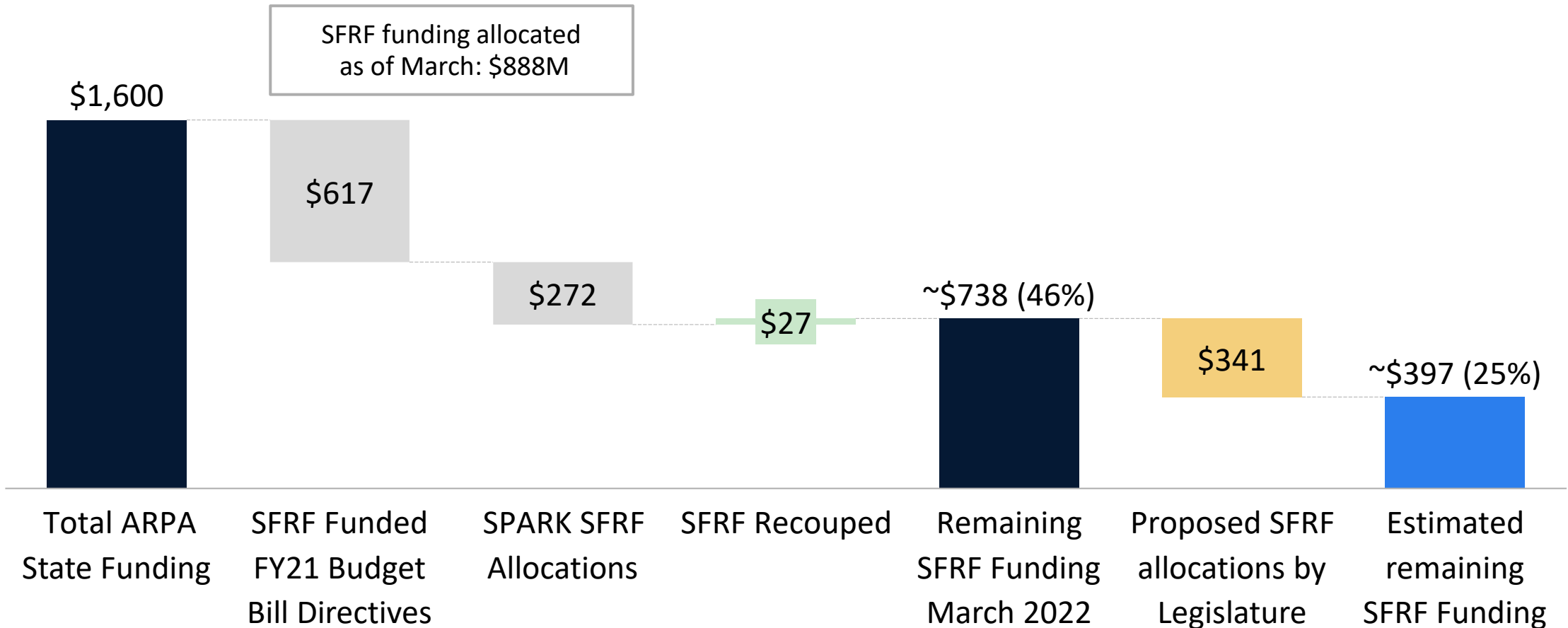
Decision-making meeting

Objective: Executive Committee to review **all proposed investments** holistically to **select programs for investment**

Given SFRF allocations to date, ~\$397M remaining

See KLRD Tracker (shared in pre-read package) for additional information on all SFRF allocations to date

Millions of dollars as of April 2022



Connectivity portfolio recommendations

Kansas needs robust internet connectivity...

Kansas currently ranks 28th in the US for internet access

- 600,000+ households do not have robust connectivity¹
- 400,000+ households cannot access an affordable internet service plan (<\$60/month)
- 130,000+ Kansan households lack a suitable device to connect to the internet

Kansas is already committed to addressing this important need, but more support is needed

- Internet access is foundational for economic development, education, health, etc.
- Current funding pipeline of \$375M+ from existing and pending sources (including est. Infrastructure Bill)
- However, funding pipeline will not be enough to address total Kansas need (\$1B+)

...and SPARK can help address the need

A big problem requires a big solution

- New broadband infrastructure required to provide robust connectivity across Kansas
- Adoption enablement programs needed to drive internet adoption (e.g., affordability, device access, digital literacy)

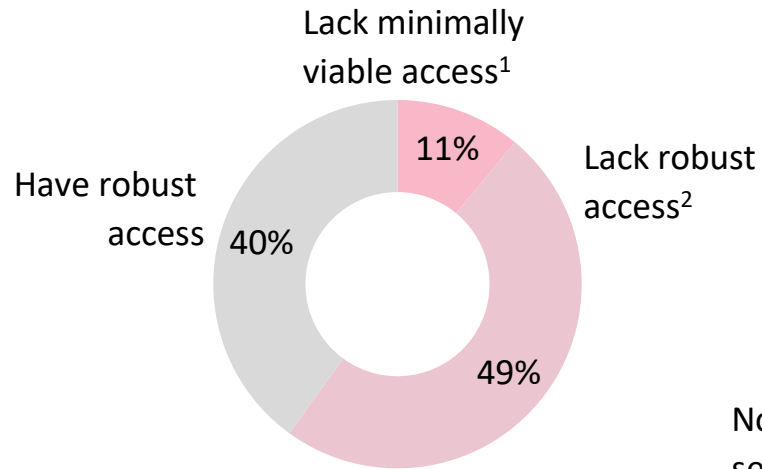
Clear parameters can help ensure program success

- Solutions must be tailored for each community's needs and use the best, scalable technology
- Programs can leverage co-investment from local and private funds to grow impact
- Hard to reach areas may benefit from piloting new technologies to address need

1. "Robust connectivity" defined as 100/100 Mbps by Broadband Now; current standard set by US Treasury guidance, with some exceptions for where needed
Source: BroadbandNow; American Community Survey

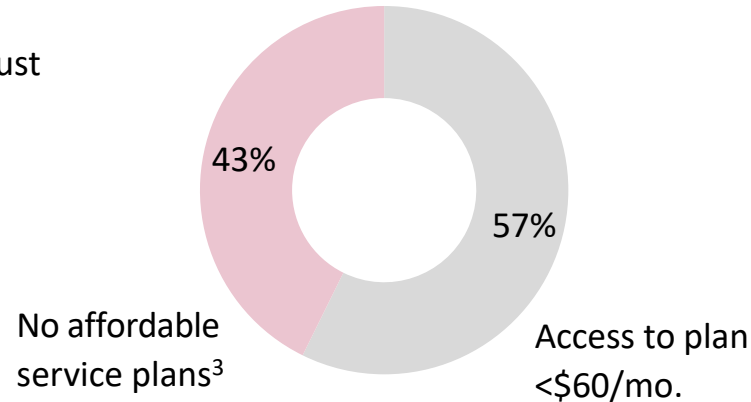
Current state of connectivity does not meet the needs of all Kansans

Access



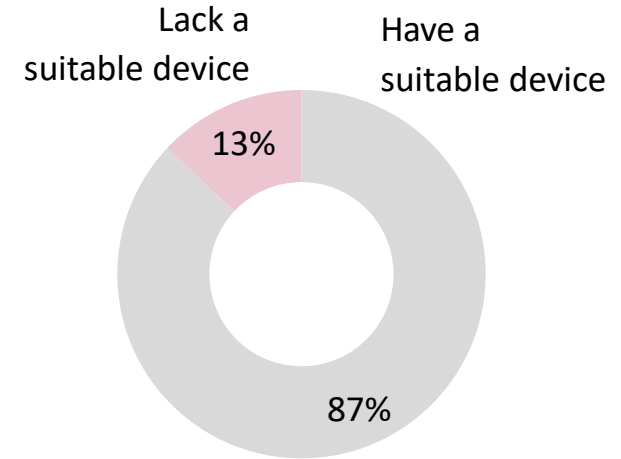
60% of Kansan households (600,000+) do not have access to robust broadband service

Affordability



>40% of Kansan households (400,000+) lack access to affordable internet service

Devices



Over 1 in 8 Kansan households (130,000+) lack a suitable device

1. Minimally viable defined as 25/3 Mbps broadband (downstream/upstream); 2. Robust defined as 100/100 Mbps broadband (downstream/upstream); 3. Affordable defined as <\$60/month for regular standalone internet plans. Data based on most recent provider-reported FCC Form 477s. Where providers have indicated coverage of a census block, analysis assumes availability of national plans and regional plans serving those blocks.

Source: BroadbandNow, American Community Survey.

\$345M+ of potential funding for Kansas broadband investments will not be sufficient to fully address total need



Broadband Expansion Funding

Funded

CERG (\$50M)

Acceleration (\$10M)¹

BPAG (\$10M)

Total: \$70M

Pending Funding

CCPF (\$103M)

Acceleration (\$75M)²

IIJA (Est. \$100M+)³

Total: \$275M+

Remaining To Be Funded

\$1B+

Potential Funding Pipeline

1

State Fiscal Recovery Funds

Scope of SPARK process

2

Additional federal grants

3

State-funded initiatives

4

Co-investment

(e.g, local relief funds, private sector dollars)

1. First two years of distribution. 2. Last eight years of distribution. 3. Based on KOBID estimates. IIJA funding for Kansas has not been determined but will be at a minimum \$100M. Significant portion of funding will be allocated through a competitive process.

Note: Connectivity Emergency Response Grant (CERG), Broadband Acceleration Grant (Acceleration), Broadband Partnership Adoption Grant (BPAG), Coronavirus Capital Project Fund (CCPF), The Infrastructure and Investment Jobs Act (IIJA), Internet Service Provider (ISP)

SPARK investment recommendations made by Connectivity Advisory Panel of public and private broadband experts and stakeholders



Sen. Mike Petersen
(Chair)
State Senator
District 28



Melinda Stanley
(Vice Chair)
Interim Executive Director,
Kansas Office of Broadband
Development (KOBD)



Sen. Tom Hawk
State Senator
District 22



Rep. Adam Smith
State Representative
District 120



Daniel Friesen
Managing Partner and CIO
Ideatek Telecom



Molly Kocour Boyle
President
AT&T Kansas



Jeff Wick
President and General Manager
WTC



Dr. Tiffany Anderson
Superintendent
Topeka Public Schools



Brian Vulgamore
Business Manager
Vulgamore Family Farms



Paul Truitt
VP of Field Operations
Cox Communications



Ed Taylor
Principal/CEO
UES Consulting Services, Inc

Connectivity Advisory Panel recommendation developed through in-depth discussion and expert analysis



Panel Activities

Aligned on needs and potential programmatic areas, informed by idea submissions, funding pipeline, and panel expertise

Shaped programmatic areas based on idea submissions and panel expertise

Prioritized programmatic areas based on funding needs and guiding principles

Determined SPARK funding request considering overall State needs, idea submissions, and alternative funding sources

Idea filtering process



Connectivity Advisory Panel is proposing a portfolio of \$150M - \$275M

Connectivity	
Minimum Ask: \$150M	Target Ask: \$275M

Broadband Infrastructure

\$135M - \$247.5M (90% of portfolio)
33,000 – 60,000+ households connected

Components:

- Grants to fund the development of new broadband infrastructure
- Funding and impact increased by project-specific local and private co-investment
- Focused on:
 - Robust, scalable connectivity
 - Impactful, equitable outcomes for KS (e.g., underserved & unserved communities)

Adoption Enablement

\$15M - \$27.5M (10% of portfolio)
12,000 – 20,000+ households supported

Components:

- Grants to ensure equitable access to broadband internet connectivity
- Funding and impact increased by project-specific local and private co-investment
- Focused on:
 - Internet service affordability
 - Device access
 - Digital literacy training

Programs are interdependent –
Any investment in one necessitates some investment in the other

In Meeting 3, Connectivity Advisory Panel aligned on several parameters to help ensure success of broadband investments

Broadband Infrastructure



Utilize Best Available Technology

- Focus on delivering robust, fiber connectivity, following Treasury guidance on additional solutions in harder to reach communities



Connect All Kansans

- Establish connections across Kansas, following Treasury guidance to connect unserved and underserved communities



Provide Appropriate Funding

- Leverage co-investment, providing State funding on a sliding scale to decrease match requirements in high-need, high-cost areas

Adoption Enablement



Leverage Existing Programs

- Leverage and learn from existing programs, e.g., FCC's Affordable Connectivity Program, to ensure success of investments



Engage Partners

- Work with municipalities, ISPs, and community organizations to empower local solutions and drive community adoption



Bridge the Gap

- Tailor programs to provide optimal mix of service affordability, device access, and digital literacy training to meet specific community needs

Proposed Connectivity programs are highly impactful and feasible means to address Kansas' internet connectivity needs

Broadband Infrastructure



High Alignment to SPARK Guiding Principles:

- One-time investment drives catalytic impact on Kansan connectivity needs



High Impact:

- Supports telework, telehealth, distance learning, eCommerce, transportation, public services, etc.
- Increases reach through project-specific co-investment



High Feasibility:

- History of successful grant programs and projects with multiple KS broadband providers



High Need:

- 600,000+ Kansas households lack robust connectivity¹
- Received 27 idea submissions (~\$1.2B) for broadband infrastructure; also aligned to KOBID strategic priorities

Adoption Enablement



High Alignment to SPARK Guiding Principles:

- One-time investment enables equitable adoption of newly developed broadband services



High Impact:

- Maximizes investments in broadband infrastructure by ensuring all Kansans can easily and sustainably use new services
- Increases reach through project-specific co-investment



High Feasibility:

- Models exist for adoption enablement and can be utilized to ensure sustainable implementation



High Need:

- 400,000+ Kansas households lack access to affordable service; 130,00 lack a suitable device
- Received 9 idea submissions (~\$16.2M) for adoption enablement; also aligned to KOBID strategic priorities

1. "Robust connectivity" defined as 100/100 Mbps by Broadband Now; current standard set by US



The proposed
Connectivity
portfolio will have
significant positive
impact for Kansans

1



Target ask of **\$247.5M for Broadband Infrastructure** can provide 60,000+ households with robust connectivity

2



Target ask of **\$27.5M for Adoption Enablement** can ensure 20,000+ households have access to affordable service, devices, and digital literacy

Questions and Discussion



Efficiency & Modernization portfolio recommendations

The State has made **ongoing investments in modernizing government infrastructure and improving service delivery** incrementally given project scale and budget constraints

COVID-19 has **elevated the importance of improving the underlying structures & systems** that deliver critical services to Kansans

Catalytic, one-time investments of SFRF funds in efficiency and modernization programs can:



Accelerate the state's ability to **deliver public services reliably and securely**



Target critical **enhancements** needed to maintain facilities and promote public health & safety

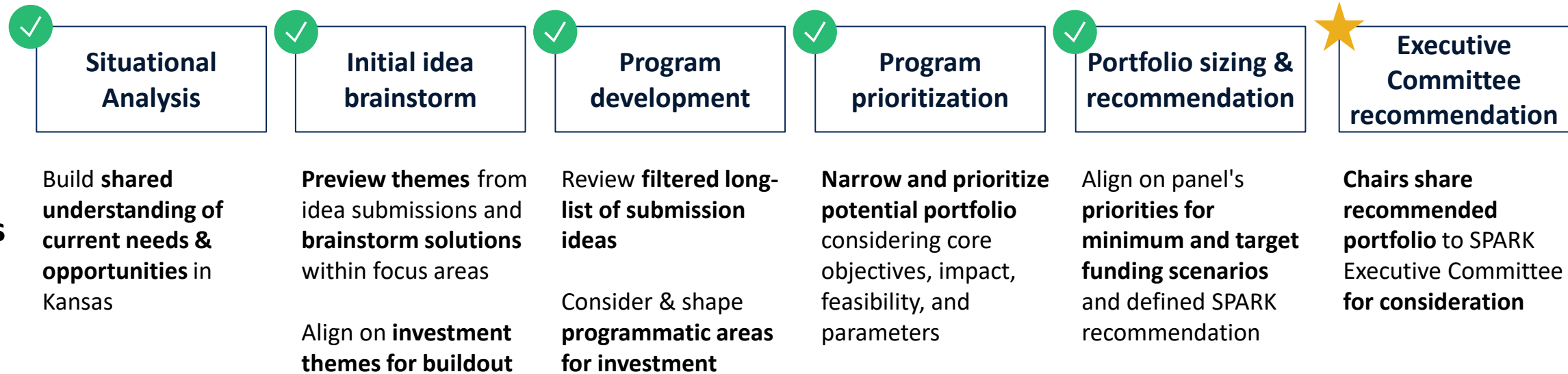


Support agencies as they respond to **COVID-driven demand** and **build resilience** for the future



Ensure **public safety** outcomes and **interoperable communication systems** statewide

Recommended portfolio was developed through robust engagement with Advisory Panel



Idea filtering process



SPARK investment recommendations made by Efficiency & Modernization Advisory Panel



Rep. Troy Waymaster
(Chair)
State Representative
District 109



Mark Hutton
(Vice Chair)
Retired CEO and
Former Legislator



Sen. Michael Fagg
State Senator
District 14



Rep. Kathy Wolfe-Moore
State Representative
District 36



Tanya Heffel
Chief Technology
Officer, OITS



Joe Mandala
Chief Information Officer,
KBI



Frank Burnam
Director, OFPM



Matt Billingsley
Former Kansas Department
of Revenue



Michael Wilkes
City Manager, Olathe



Shane Mathis
CEO, Ally RNG

Proposed portfolio is designed to address five opportunities to accelerate progress and advance the State's ability to operate and deliver services

Opportunities



Accelerate and enhance state delivery of public services through interoperable, secure, modern infrastructure



Enable critical facility improvements that ensure Kansans can safely & efficiently access services



Adapt to COVID-driven increase in demand for services and build state resilience against future disruptions



Modernize state safety and security equipment for safe and secure government communications



Extend local funding to promote public safety outcomes statewide and interoperability with state

Programs



State IT Infrastructure



State Facilities Modernization



State Continuity of Operations



State Safety and Security Equipment




Local Safety and Security Equipment

Efficiency & Modernization Advisory Panel is proposing a portfolio of \$105M - \$131M

Efficiency & Modernization Portfolio

Minimum Ask: \$105M Target Ask: \$131M

State IT Infrastructure 

Min	Target
\$28M	\$46M

Accelerate **major IT enhancements** (digitization, cyber, infrastruct.) to ensure:

- **Reliable, efficient, and secure delivery** of critical state services
- **Enhanced access** to services for Kansans
- **Interoperability** and **standardization**

State Facilities Modernization 

Min	Target
\$24M	\$24M

Advance **targeted facilities upgrades, maintenance, and renovations** to ensure:

- **Maximized building efficiency**
- Kansans can safely and efficiently **access facilities and services**
- **Healthy, safe facilities** for users & employees

State Continuity of Operations 

Min	Target
\$28M	\$31M

Provide support to **deliver and adapt essential state services** to ensure:

- Minimal disruption to services and adaptation to **COVID-driven demand**
- **Resiliency of services** and **mitigated impact of future disruptions**

State Safety & Security Equip. 

Min	Target
\$20M	\$20M

Deploy **critical upgrades to state safety comms. infrastructure and equipment** to ensure:

- **Compliance** with fed. encryption standards
- Improved emergency operations and **interoperability** across state and local government entities

Local Safety & Security Equip. 

Min	Target
\$5M	\$10M

Extend local **funding via matching for local comms. infrastruct. and equipment** to ensure:

- **Compliance** with fed. encryption standards
- Improved **emergency operations** and **interoperability** across state and local government entities

Idea submissions received by the panel played an important role in shaping programs

Efficiency and Modernization High-Fit Ideas by Program Area

- Included in minimum and target ask
- + Addition included in target ask only

State IT Infrastructure

Min **\$28M** Target **\$46M**

- KANWIN network modernization (~\$13M)
- Judicial centralized IT projects (~\$2M)
- Infrastructure mod. and upgrades (~\$2M)
- Cybersecurity (~\$12M)
- + Data warehouse (~\$5M)
- + Constituency single sign-on (~\$3M)
- + Children / families electronic records (~\$10M)

Add'l idea for consideration: Digital ID records (e.g., drivers licenses) (~\$10M)

State Facilities Modernization

Min **\$24M** Target **\$24M**

- Capitol Complex air handler replacement (~\$5M)
- Capitol Complex security enhancements (~\$6M)
- State printing plant systems enhancements (~\$4M)
- HVAC for Kansas State Schools for the Deaf (~\$6M) and Blind (~\$3M)

State Continuity of Operations

Min **\$28M** Target **\$31M**

- KBI lab equipment replacement (~\$1M)
- KBI laboratory operating supply increases (~\$1M)
- KDOL call center phone system upgrade (~\$.4M)
- Public broadcasting equipment modernization (~\$26M)
- + Kansas Wildland Firefighting Grant (~3M)

State Safety & Security Equip.

Min **\$20M** Target **\$20M**

- KHP law enforcement radio modernization (~\$18M)
- KBI vehicle mounted radio replacement (~\$.5M)
- KBI handheld portable radio replacement (~\$.3M)
- KDWP law enforcement radio replacement (~\$1M)






Local Safety & Security Equip.

Min **\$5M** Target **\$10M**






- Local match-based funding safety & security equipment needs across Kansas (\$5-10M), e.g.:
 - Communications equipment (i.e., radio) upgrades
 - Dispatch console upgrades

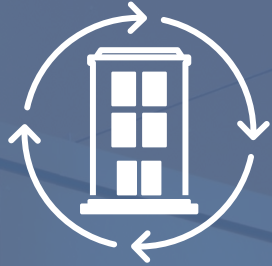
Note: The idea submissions listed above are not an exhaustive list of needs in all program areas. They are intended to capture the scope of submissions that inspired the program as scoped. At this point, they are idea submissions and do not represent approved projects. Total dollar amounts do not reflect finalized funding allocations or approvals for this program

Proposed Efficiency & Modernization programs are impactful and feasible and will advance the State of Kansas' ability to operate and deliver services

	State IT Infrastructure 	State Facilities Modernization 	State Continuity of Operations 	State Safety & Security Equip. 	Local Safety & Security Equip. 
	Min \$28M Target \$46M	Min \$24M Target \$24M	Min \$28M Target \$31M	Min \$20M Target \$20M	Min \$5M Target \$10M
Alignment to Guiding Principles	High	High	Medium	Medium	High
Impact	High	Medium-High	Medium	Medium	Medium
Feasibility	Medium	High	High	High	Medium

Proposed Efficiency & Modernization programs are impactful and feasible and will advance the State of Kansas' ability to operate and deliver services

	State IT Infrastructure 	State Facilities Modernization 	State Continuity of Operations 	State Safety & Security Equip. 	Local Safety & Security Equip. 
	Min \$28M Target \$46M	Min \$24M Target \$24M	Min \$28M Target \$31M	Min \$20M Target \$20M	Min \$5M Target \$10M
Alignment to Guiding Principles	High - Advance agency efforts to make major upgrades and accelerate time-to-impact	High - Long-term systematic impact with measurable efficiency gain outcomes	Medium - Potential to leverage agency funds and deploy flexible investment strategy to max. impact	Medium - Accelerate agency investments for system-wide improvements	High - Drive equitable local outcomes via extending impact of local funds
Impact	High - Accelerate efficient and secure service delivery & protect against threats	Medium-High - Drive long-term efficiency savings & safer public service delivery	Medium - Target near term agency support & build resiliency against future disruptions	Medium - Support req. upgrades to critical equip. & extend time before next upgrade	Medium - Enable required upgrades to critical equip. & support comms. in crisis response
Feasibility	Medium - One-time investments provide opportunity for broader efficiency savings	High - One-time investments leveraging existing capital improvement plans	High - One-time use of funds with high degree of executability	High - One-time use of funds with efficient, clear path to equip. replacement	Medium - One-time use of funds; centralized agency needed to administer local awards



The proposed Efficiency & Modernization portfolio will have significant positive impact for Kansans

1



\$28-46M for State IT infrastructure can accelerate reliable and secure delivery of critical state services to Kansans

2



\$24M for State facilities modernization can drive future cost savings and public safety outcomes for the state

3



\$28-31M for State Continuity of Operations can address COVID-driven demand and build resilient capabilities

4



\$20M for State Safety and Security Equipment can support safe, compliant & interoperable communications

5



\$5-10M for Local Safety and Security Equipment can enable safe and secure crisis response for local Kansans

Questions and Discussion



Other SPARK updates

Program updates

Frontline Hospital Worker Retention

- Program deadline to expend funds was February 28, 2022
- Final reports were due to Office of Recovery by March 15, 2022

Economic Development Infrastructure (BASE)

- Applications closed on February 28, 2022; 443 submissions received, totaling \$1.8B in funding requested
- Awards announced April 12, 2022

Extension of Testing Funding

- FEMA reimbursement received

Learning Recovery Grant Program

- Developing program design

KS Connect and Learn

- \$4M transferred to KSDE

24/7 Pay Plan

- Funds continue to be utilized as outlined in SPARK proposal

Next steps

Path forward

Next steps for **Executive Committee**

- Reflect on additional program information provided from Connectivity and Efficiency & Modernization Panels
- Review initial portfolio recommendations from Health & Education and Economic Revitalization (3–5 pm CT on Mon 4/18)

