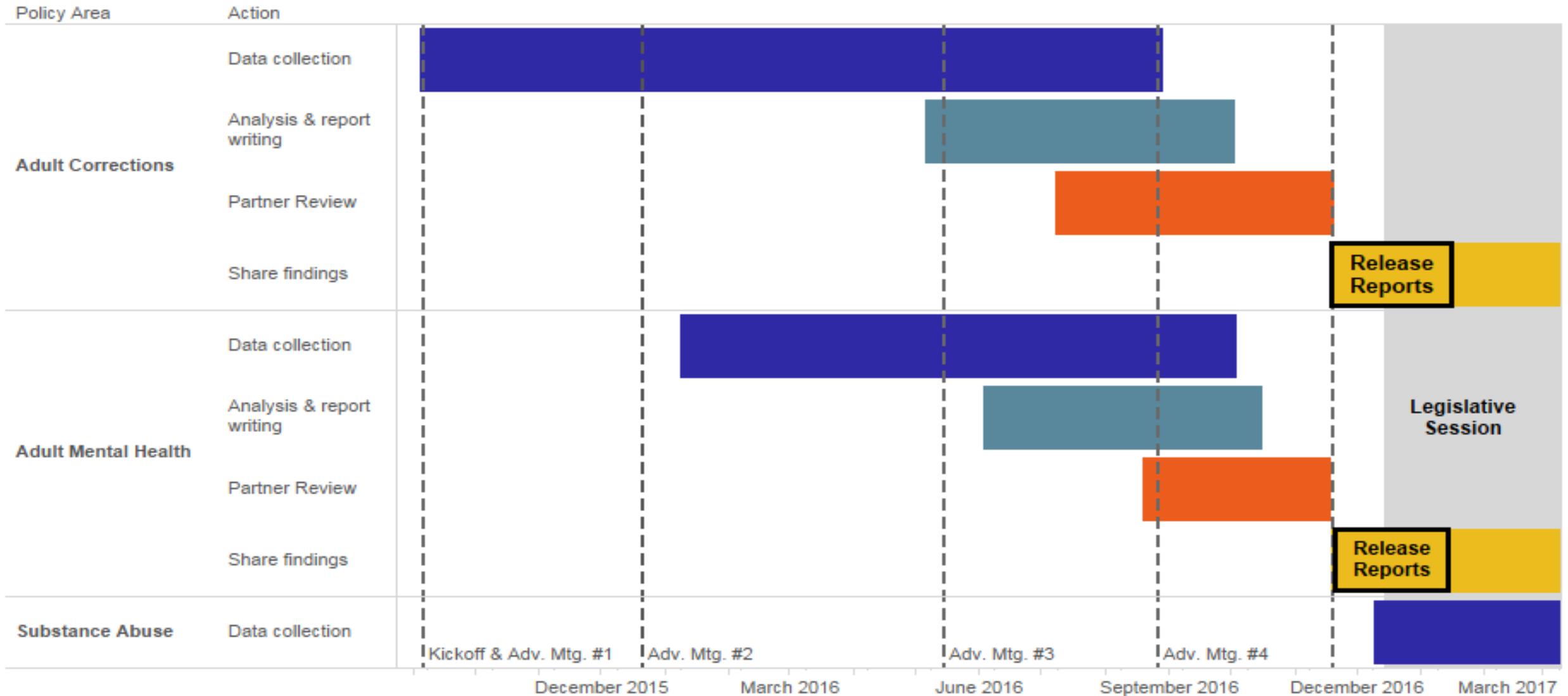


Results First - Findings

Background

- In 2015, a bipartisan effort MMB to do benefit-cost analysis, using the Pew-MacArthur Results First Framework
- Desire by decision-makers to have a uniform ways to assess and invest in policies and programs that are proven to work
- MMB worked with agencies, counties, providers, and Pew to collect, clean, analyze, and interpret data
 - Conducted over 150+ interviews
 - Created an inventory of 100+ services and their evidence-base
 - Gathered and produced through 75+ gigabytes of data

How we got here



Inventory of services

- A universe of services offered in Minnesota for each program area
- Provides description of service and connects service to rigorous evidence supporting its effectiveness
 - Mental Health – impact on hospitalization, employment, homelessness or psychiatric symptoms
 - 19 of 32 services are proven effective (10) or promising (9)
 - The remaining are theory-based (4) or not rated because they represent a range of services (9)
 - Corrections – impact on recidivism
 - 34 of 71 services are proven effective (24) or promising (10)
 - The remaining are theory-based (23), have no effect (3), research inconclusive (1), or not rated because they represent a range of services (10)

Timeline

Tentative timeline	Adult Corrections	Adult Mental Health
Inventory release	11/23/16	12/14/16
Receive agency feedback on draft report	11/18/16	11/30/16
Provide copy for MMB Comms to review	11/17/16	11/17/16
Brief Commissioner Frans on findings	11/23/16	11/23/16
Brief Governor's office to review findings	Week of 12/5/16	11/30/16
Release report	12/14/16	12/14/16
Commissioner Frans briefs committee chairs	TBD - late dec.	TBD - late dec.
Testimony to committees on findings	TBD - early '17	TBD - early '17
Next Advisory Committee Meeting – December 16, 2015		

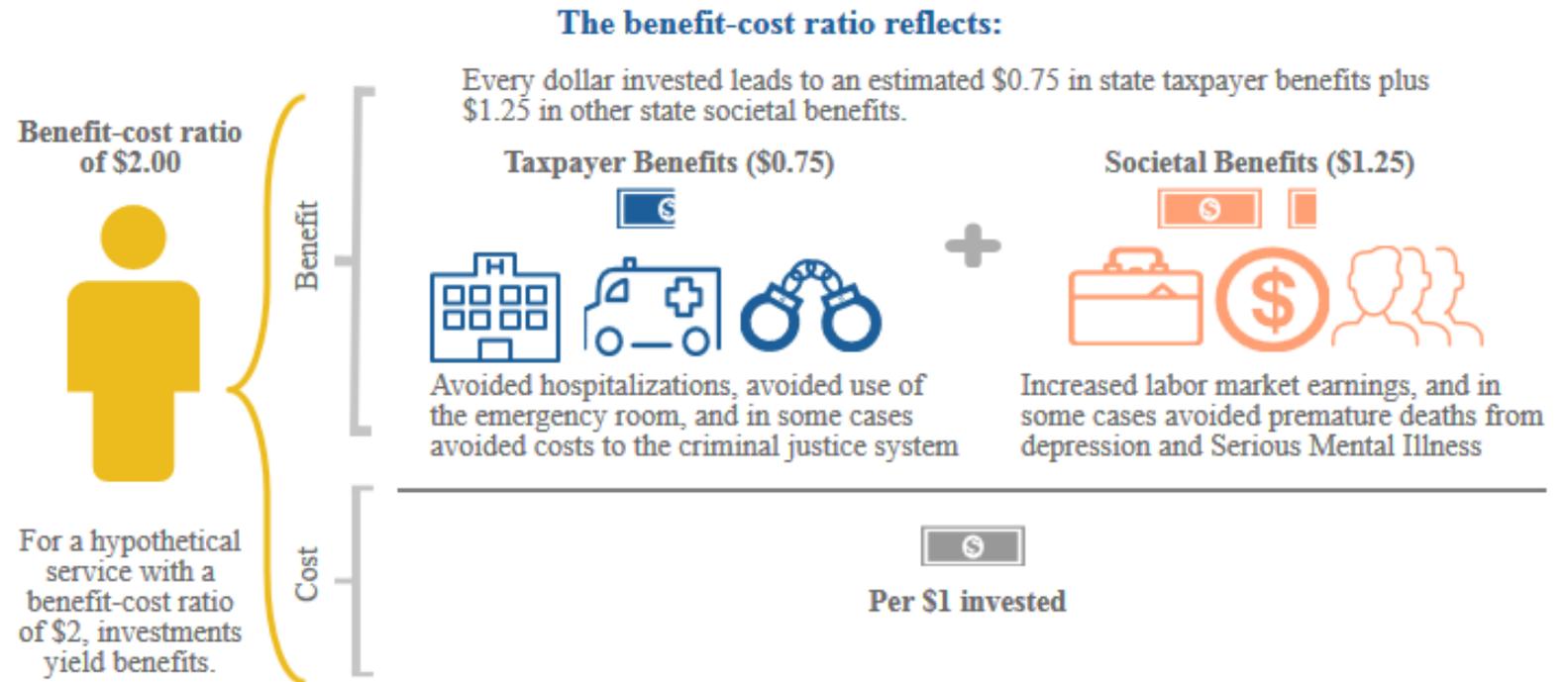
Benefit-Cost Analysis

Programs available for benefit-cost analysis

- For services in the inventory to receive the full benefit-cost analysis, we needed adequate rigorous evaluations and sufficient program data
- Corrections
 - Supervision: 8 services
 - Prison: 11 services
- Mental health: 7 services

Benefit-cost analysis

- What is a benefit-cost ratio?
- Benefit types: taxpayer and societal
- Results reflect returns if Minnesota services get the same results as rigorous research



Adult mental health findings

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ADULT MENTAL HEALTH
BENEFIT-COST ANALYSIS

RESULTS FIRST INITIATIVE
DECEMBER 2016



- For the 7 services examined, all have positive benefits; six have benefits that exceed cost
- Reflects impact of services on hospitalizations, employment, and crime
 - Examined, but not included in the benefits, impact on psychiatric symptoms, homelessness, and global functioning

Adult Mental Health Findings

- For services, returns to a dollars invested range from \$4.30 - \$0.80.
 - Examined one care protocol, Cognitive-Behavioral Therapy, delivered to three different types of participants. Benefits range from \$66.00 - \$30.80.
- Most benefits accrue to participants'
- 2 of 7 services have taxpayer benefit cost ratios that exceed \$1

Service or Practice*	Total Benefits	Net Cost Per Participant	Benefit-Cost Ratio	Components of Benefit-Cost Ratio Taxpayers (Blue) & Society (Orange)	
Estimated benefit-cost ratios for Crisis Response Services					
Mobile Crisis Response	\$1,710	\$400	\$4.30	\$1.30	\$3.00
Estimated benefit-cost ratios for Community Services & Supports					
Certified Peer Specialist	\$1,810	\$500	\$3.60	\$0.50	\$3.10
Individual Placement and Supports	\$1,520	\$710	\$2.10	\$0.30	\$1.80
Behavioral Health Homes	\$200	\$150	\$1.40	\$0.80	\$0.60
Illness Management Recovery	\$1,250	\$880	\$1.40	\$0.30	\$1.10
Wellness Recovery Action Plan	\$370	\$460	\$0.80	\$0.10	\$0.70
Estimated benefit-cost ratios for Basic Clinical Services					
Cognitive Behavioral Therapy Adult Anxiety	\$37,500	\$570	\$66.00	\$8.80	\$57.20
Cognitive Behavioral Therapy Adult Depression	\$20,690	\$570	\$36.40	\$5.00	\$31.40
Cognitive Behavioral Therapy PTSD	\$17,490	\$570	\$30.80	\$8.30	\$22.50

Bar graphs are not to scale.

Source: Minnesota Management & Budget

*Evidence-based services and practices operating in Minnesota

Note: Net cost per participant is the incremental cost of providing a service/practice to a participant.

Adult mental health findings

- There remains gaps in service availability
 - Service availability varies from county to county
- Some services are not implemented with fidelity to the research model
 - If a service does not follow the model, we may not get the anticipated outcomes
- Most spending occurs late in the care continuum. Prevention and early intervention may improve outcomes and cost-effectiveness



Adult corrections findings

- Minnesota is implementing many evidence-based practices, which can reduce recidivism
 - 34 of 71 services in corrections inventories reviewed are rated proven effective or promising
- For the 20 services that received a benefit-cost analysis, all have positive benefits; 19 have benefits that exceed cost
 - Analysis monetizes reductions in recidivism
 - Benefits accrue to society through avoided victims
 - Benefits accrue to taxpayers through avoided criminal justice costs (police, courts, prisons, and supervision)

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ADULT CRIMINAL JUSTICE
BENEFIT-COST ANALYSIS

RESULTS FIRST INITIATIVE
DECEMBER 2016



Adult supervision

- For the 8 services examined, each generate benefits that exceed cost
 - Seven of the services generate taxpayer returns in excess of investment
- Five services generate benefits and cost less than their alternatives (negative cost)

Estimated benefit-cost ratios five years after supervision begins

Service or practice*	Per participant benefits	Net cost per participant	Benefit-cost ratio	Components of benefit-cost ratio taxpayers (blue) & society (orange)	
Employment & job training assistance	\$7,390	\$650	\$11.40	\$3.60	\$7.80
Sex offender treatment	\$26,750	\$3,450	\$7.80	\$2.40	\$5.30
Electronic monitoring (supervised release)	\$2,560	\$390	\$6.60	\$2.60	\$4.00
Cognitive Behavioral Therapy	\$3,600	\$580	\$6.20	\$3.00	\$3.20
Supervision with Risk-Need-Responsivity	\$5,630	\$1,020	\$5.50	\$2.60	\$2.90
Intensive supervision - surveillance & treatment	\$18,200	\$4,740	\$3.80	\$1.20	\$2.60
Non-residential chemical dependency treatment	\$4,560	\$1,700	\$1.80	\$0.60	\$1.20
Service or practice*	Per participant benefits	Net cost per participant	Benefit-cost ratio	For the service below a benefit-cost ratio is not applicable	
Electronic monitoring (probation)	\$2,130	(\$1,350)	not applicable		Service is less expensive than the alternative, and generates benefits from reducing recidivism.

Estimated benefit-cost ratio five years after release from prison

Service or practice*	Per participant benefits	Net cost per participant	Benefit-cost ratio	Components of benefit-cost ratio taxpayers (blue) & society (orange)	
Cognitive Behavioral Therapy	\$13,100	\$980	\$13.40	\$4.20	\$9.20
EMPLOY	\$19,220	not estimated	**		
MnCOOSA	\$40,540	not estimated	**		
Career and technical education	\$8,590	not estimated	**		
Chemical dependency treatment	\$13,520	not estimated	**		
Correctional adult basic education	\$930	not estimated	**		
Service or practice*	Per participant benefits	Net cost per participant	Benefit-cost ratio	For the services below benefit-cost ratios are not applicable	
Affordable Homes Program	\$7,470	(\$100)	not applicable		Service is less expensive than the alternative, and generates benefits from reducing recidivism.
InnerChange Freedom Initiative	\$20,870	\$0	not applicable		Service is costless to the state, and generates benefits from reducing recidivism.
Correctional industries	\$7,060	not estimated	not applicable		We were unable to estimate the cost of this service, but it generates benefits from reducing recidivism.
Challenge Incarceration Program	\$14,540	(\$6,330)	not applicable		Service is less expensive than the alternative, and generates benefits from reducing recidivism.
Work release	\$5,710	(\$1,200)	not applicable		Service is less expensive than the alternative, and generates benefits from reducing recidivism.

Adult prison

- The majority of services generate taxpayer returns in excess of investment
- Five services generate benefits and cost less than their alternatives (negative cost)
- The DOC has not yet produce needed data for the five services marked **

Adult correction: key considerations

- Further evaluation needed for many theory-based services
- Implementation is important: If services are not implemented with fidelity, we may not get the anticipated return on investment
- Use of evidence-based practices varies between counties
 - Minnesota's county-centric model allows for investigation and application of new services
 - It also means counties are at different stages, and have different financial capacity, to implement evidence-based practices

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