# Toward improved data sharing, linkage and dissemination among King County government agencies and their partners

Performance Measurement Work Group



## Outline

- Data fragmentation and its consequences
- King County ACH Performance Measurement Work Group aims to address data fragmentation
- Looking ahead at the evolving data needs and roles of ACHs
- Spotlight on data needs of housing-health partnerships in King County

Problem statement: Why we need better data sharing, linkage & dissemination in King County

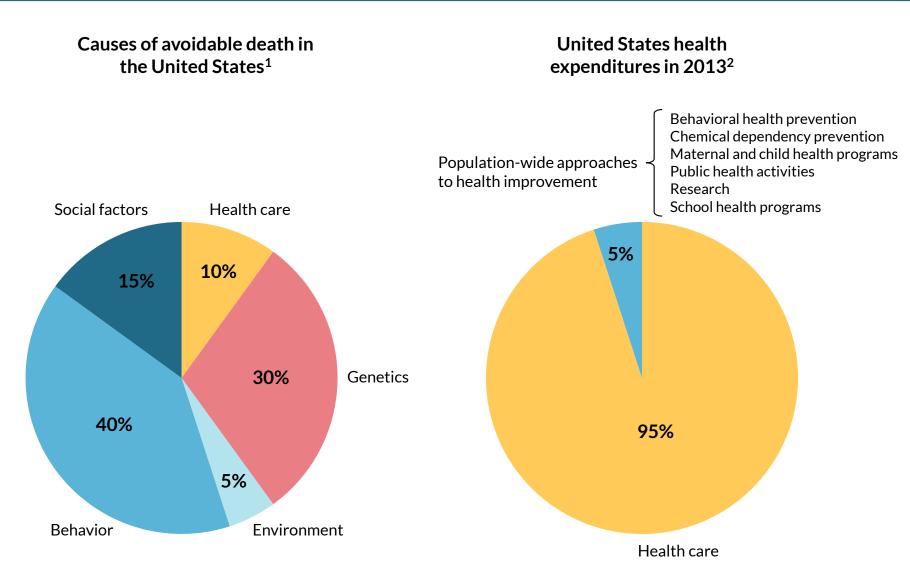
In King County, there is a broad understanding that health begins where we live, learn, work and play.

Because of this, we know we must work across sectors, agencies and communities in order to reach better and more equitable health at lower costs. In King County, many "transformation" initiatives are working across sectors throughout the life course to address this need.

There is great promise in this growing collaborative approach to promote healthy individuals and communities. But to know if we are making progress, these initiatives need to share, link and disseminate cross sector data, but substantial barriers stand in the way.

Historically, health and non-health data are maintained separately, are not typically linked together to understand a fuller picture of health & well-being, and as a result, many stakeholder groups do not have access to the information they need to make evidence-based decisions.

Health extends far beyond health care.



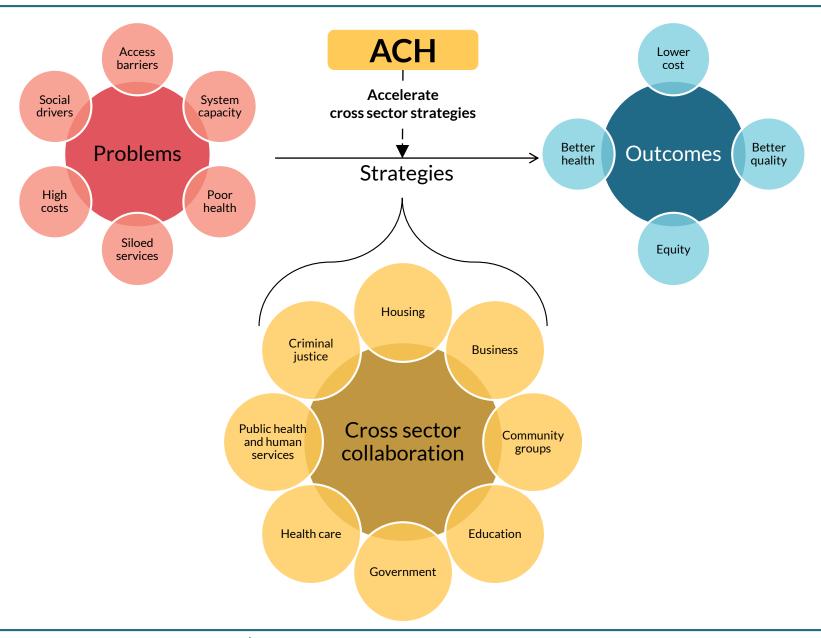
<sup>&</sup>lt;sup>1</sup> McGinnis et al., The case for more active policy attention to health promotion. Health Affairs 2002; 21(2):78-93.

<sup>&</sup>lt;sup>2</sup> Centers for Medicare & Medicaid Services, Office of the Actuary. National health expenditures, by source of funds and type of expenditure. 2013.

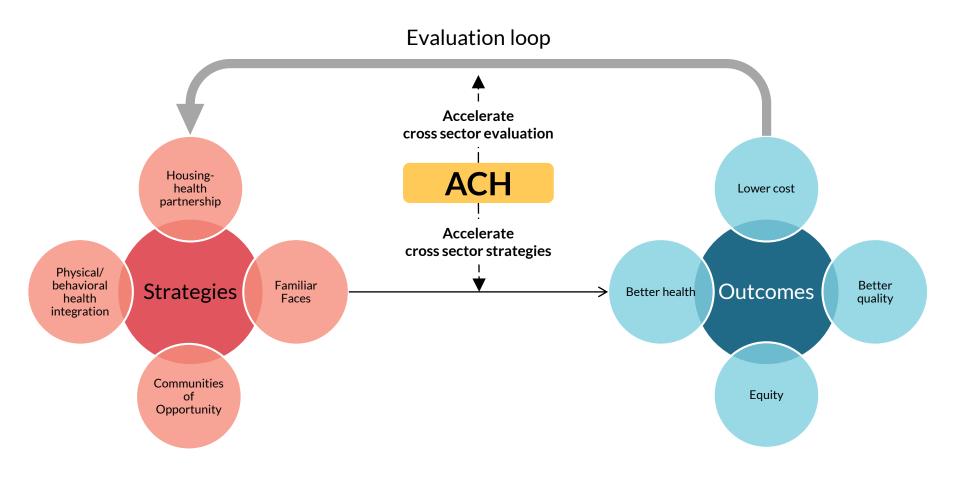
In WA state, there is a broad understanding that health begins where we live, learn, work and play.

This is embodied in the Accountable Community of Health.

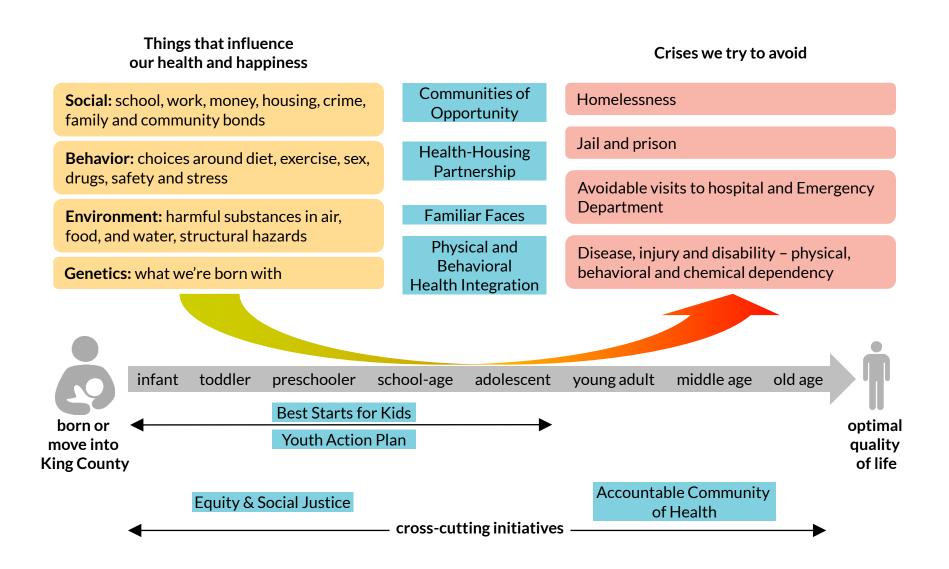
## Complex problems require complex strategies



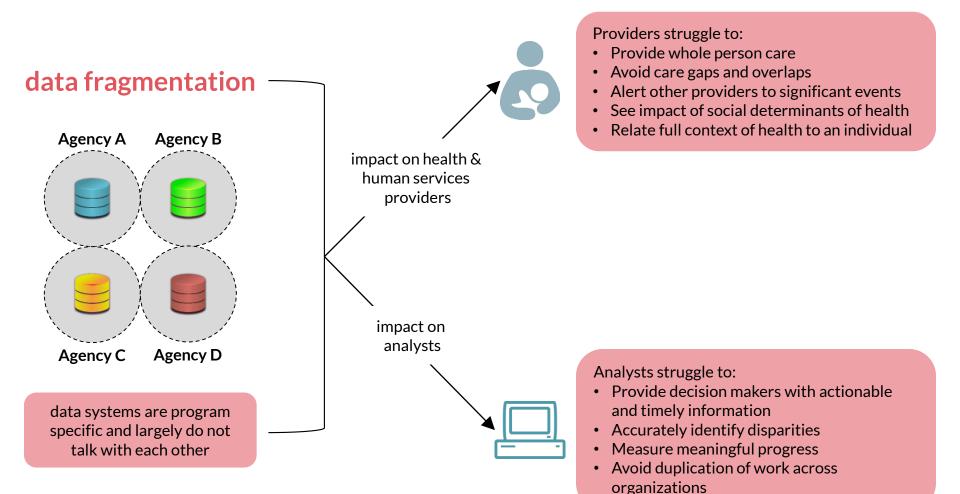
## Complex strategies require complex evaluation



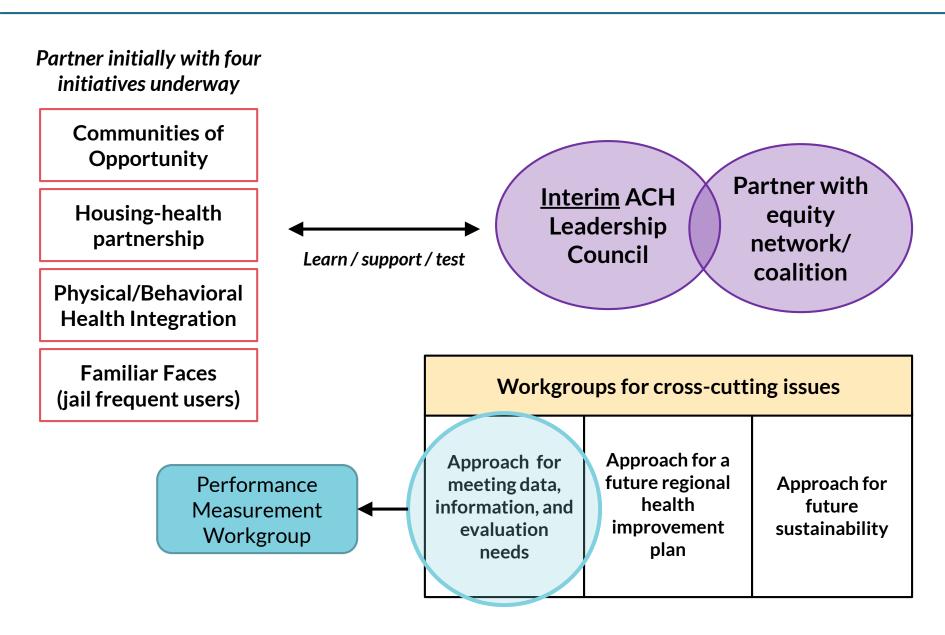
## In King County, Health & Human Services Transformation initiatives are working across sectors throughout the life course



## Impact of data fragmentation on health and human services transformation

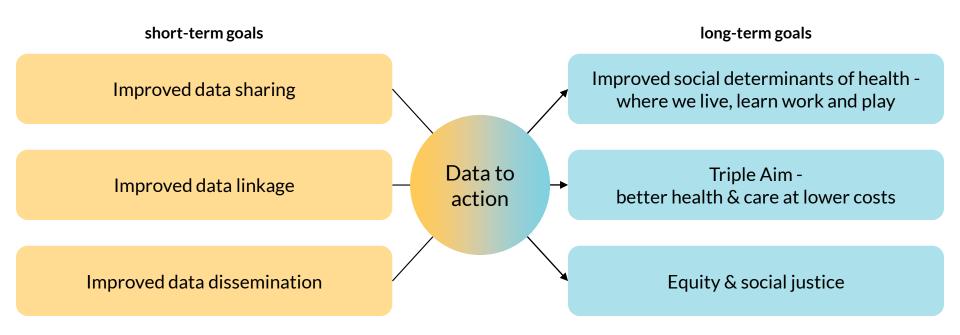


# The King County ACH Performance Measurement Work Group

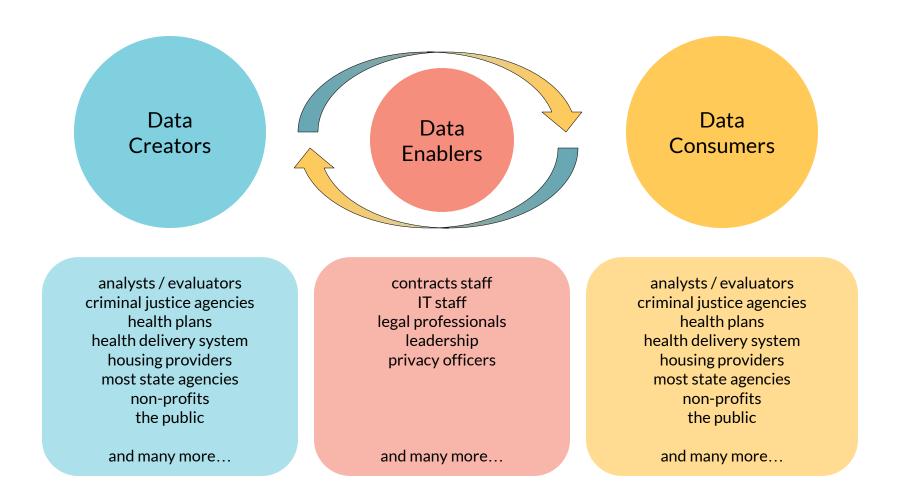


#### Data to action

We believe that providing the right people the right information at the right time can promote evidence-based decision making for health policy and programs. By making available a current, fuller picture of health and well-being at the individual and community level, we believe that decision makers will be better able to both gauge and make progress towards our collective goals.

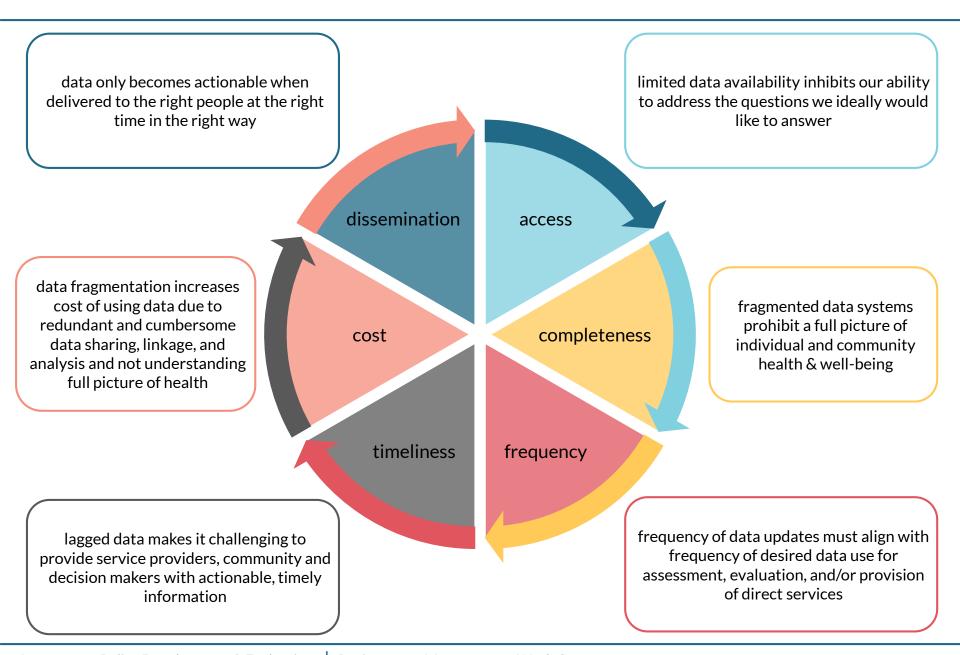


## Data sharing & linkage require a multi-disciplinary approach



Adapted from Toward a Structure for Classifying a Data Ecosystem, Seeder A., Smart Chicago, 2014, <a href="http://www.smartchicagocollaborative.org/toward-a-structure-for-classifying-a-data-ecosystem/">http://www.smartchicagocollaborative.org/toward-a-structure-for-classifying-a-data-ecosystem/</a>

## Six dimensions of actionable data



## How did the PMW address data fragmentation during its 1<sup>st</sup> year?

### Relationship building

- Began to build common language and interpretation of data privacy & data sharing in King County
- Brought HCA and King County Chief Information Officers together to identify common priorities for data sharing & integration
- Built relationships between state agency and King County privacy officers

#### Regional voice

- Guided selection of ACH-level summary measures produced by Providence CORE
- Informed use of CDR data for population & behavioral health (use case scenarios, meetings, survey)
- Involved in development of performance measures for behavioral health contracts
- Accelerated consideration of behavioral health data by Link4Health Privacy and Security Workgroup
- Facilitated discussion with DSHS regarding use of PRISM data for ACH data needs

#### Recommendations

- Developed initial set of recommendations for the King County ACH ILC aimed to support data sharing/integration in the ACH environment
- Participated in an RWJF Public Health Services and Systems Research grant aimed at identifying the role of local health and human services departments in building shared data in the WA state ACH context

#### Preparing for the future

- Participated in discussions around data needs of King County ACH SIM project
- Began to unpack data-related impacts of Medicaid waiver on King County ACH
- How will data needs and data requests be fulfilled under the emerging ACH governance structure

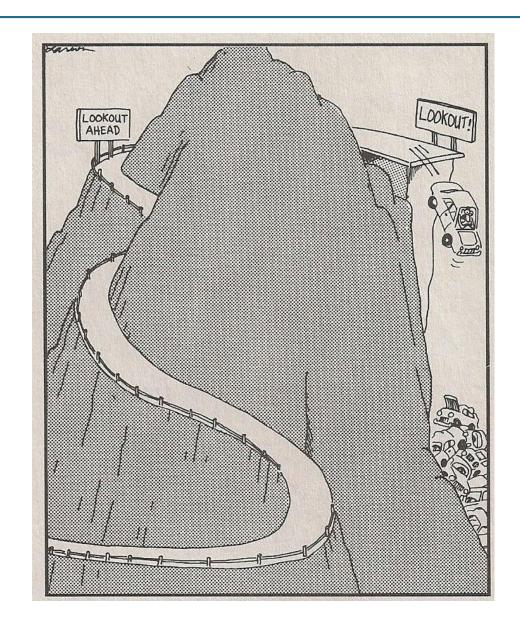
#### Initiative-specific support

- Strengthened cross agency, cross initiative relationships, and identified common data needs and priorities across ACH-backed initiatives
- Supported development of Data Across Sectors for Housing & Health grant proposal
- Contributed to proposal for KCIT to develop a cross sector data integration solution to improve care coordination for high-need/high-risk individuals in King County

What's ahead for the evolving data needs and roles of ACHs in WA state?

## Planning for what is to come...topics to address over the coming year

- What "data backbone" function will be needed for the King County ACH?
- How will the ACH meet its data and evaluation needs in the context of Medicaid waiver projects?
- What should the ACH be doing to support Value-based Payments in the context of VBP measures being included in state's health care purchasing contracts?
- Who should be included in conversations around data related to the:
  - Regional Health Improvement Plan?
  - Value-based Payments?
  - Medicaid waiver projects?



## Overview of Healthier Washington Medicaid Transformation waiver

#### **Background**

Delivery System Reform - each region, through its Accountable Community of Health, will be able to pursue projects that will transform the Medicaid delivery system to serve the whole person and use resources more wisely

#### Overall goal

- Shift to paying for value over volume (i.e. away from fee-for-service):
  - Target: 80% of Medicaid payments are value-based payments by 2019

#### **Project guidelines**

- Projects will be specified by the state
- Projects must support predominantly Medicaid-eligible populations

#### **Key players**

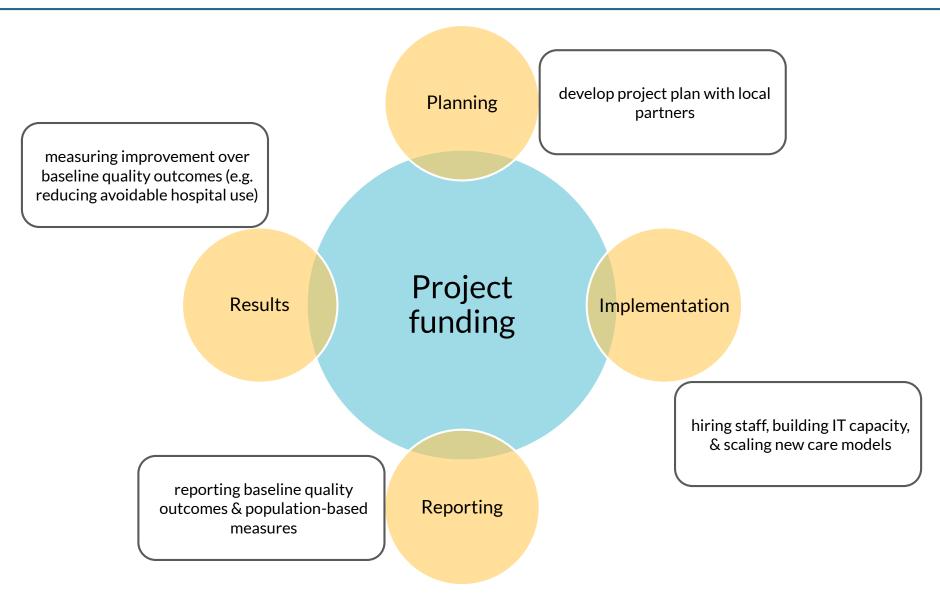
Focus on transforming health care delivery system by working with providers and plans

#### Role of metrics

- Participating providers will earn incentive payments based on performance on project metrics:
  - State will develop metrics for each waiver project
  - Metrics expected to be based on common measure set

Source: Healthier Washington, Medicaid Transformation Waiver: Framework for the Project Toolkit, 4/21/2016.

## How can waiver project funding potentially be used in WA state?



Source: Healthier Washington, Medicaid Transformation Waiver: Framework for the Project Toolkit, 4/21/2016.

Which data sources?

If ACHs work with providers, plans, and other partners to implement Medicaid waiver projects, what data will be needed for planning & performance measurement?

Which populations?

Will Medicaid waiver projects be targeted to ALL Medicaid enrollees within each ACH, or will projects target selected sub-populations by provider, plan, demographics (e.g. place) or clinical characteristics?

Crossing providers/plans If projects target sub-populations that span multiple providers and/or plans, how will this cross provider/plan data be prepared for planning and performance measurement?

Use of non-provider/ plan data

How will data sources not traditionally used by providers/plans (population-based surveys, vital statistics) be incorporated into project performance measurement?

Performance measurement roles

Will performance measurement be centralized (i.e. state) or localized (i.e. ACHs/partners)?

Role of non-health data in planning

For projects that focus on working with partners outside of the traditional health care delivery system, how will these projects use cross agency, cross sector data for planning?

Data infrastructure

What data infrastructure will ACHs or waiver project partners need to receive, process, manage and analyze data?

HIPAA

Do ACHs need to be HIPAA covered entities or be partnered with a HIPAA covered entity to have their data needs met?

Data sharing agreements

What infrastructure or tools would be helpful to ACHs and their waiver project partners in establishing data sharing agreements?

Minimum data capacity

What minimum data capacities should ACHs have either through staffing, contracting, or collaboration with ACH partners?

Budgeting for data

What percent of administrative budget or other lines should be directed towards meeting data needs?

Data technical assistance

What level of data technical assistance provided by whom will be needed by ACHs and their partners? What about regional or centralized support beyond AIM for the waiver?

## Pay for performance metrics to be drawn from common measure set

#### Measures based on claims/hospitalization data typically drawn from identifiable data

Able to assess custom groups defined by participation in intervention (e.g. waiver project)

#### CLAIMS/HOSPITALIZATION DATA-BASED MEASURES

access to primary care providers well-child visits weight assessment & nutrition/physical activity counseling primary caries prevention offered by primary care medical assistance with smoking

health screenings (cancers, chlamydia) follow/up after hospitalization for mental illness follow/up after discharge from ED for MH/CD concern

mental health service penetration substance use disorder treatment penetration 30-day psychiatric inpatient readmissions depression: medication management

asthma: medication management

COPD: use of spirometry in diagnosis hospitalization for COPD or asthma

diabetes: blood sugar testing diabetes: blood sugar poor control

diabetes: eye exam

diabetes: kidney disease screening diabetes: blood pressure control

cardiovascular disease: blood pressure control

cardiovascular disease: statin therapy medication safety: adherence to prescribed

medications

medication safety: hypertension medication

monitoring

generic medication prescribing appropriate testing for pharyngitis avoidance of antibiotics for acute bronchitis avoidance of X-ray, MRI, CT scan for low back pain

potentially avoidable ED use

ED visit rate

30-day all-cause hospital readmissions

Cesarean deliveries

hospital 30-day mortality for heart attacks catheter-associated urinary tract infections stroke care: timely thrombolytic therapy

patient falls with injury

patient safety for 11 indicators (composite) annual per-capita state-purchased health care

spending

Medicaid per enrollee spending

Public Employee per enrollee spending

#### Measures based on surveys or vital statistics typically \*not\* drawn from identifiable data

- Not typically able to assess custom groups defined by participation in intervention (e.g. waiver project)
- Able to assess groups defined by demographic characteristics including place

#### POPULATION-BASED SURVEY MEASURES

tobacco use unintended pregnancies immunization status mental health status

#### VITAL STATISTICS-BASED MEASURES

immunization status

#### PATIENT EXPERIENCE SURVEY MEASURES

patient experience with primary care provider communication patient experience (discharge information, medicine explained)

This is a simplified list of the common measure set for presentation purposes only. Full information on the common measure set can be found at http://www.hca.wa.gov/hw/pages/performance\_measures.aspx

## Who will measure Delivery System Reform project performance?

## If measured by the state

#### Lessons learned

- In New York, much of the data needed for planning waiver projects comes from state claims data, which is on a year-plus delay.
- In addition, much of the data analysis is done by state and carries a large administrative burden that causes further delays in information disseminated to DSRIP implementers (providers).
- This causes significant obstacles in timely reporting of clinical outcomes for payment.

#### In Washington State...

- How will state assume the substantial administrative burden of performance measurement for ACHs?
- How will this administrative burden and the lag of claims data impact pay for performance reporting and payments?
- Will multi-provider/plan claims data be made available to ACHs and their partners for project planning?

## If measured by ACHs & their partners

#### Lesson learned

- In Texas, DSRIP implementers (providers) do not have access to statewide claims data and must rely on internal data systems to report many population measures.
- This limited data reduces state's ability to measure waiver impact because reported data is not standardized across providers.

#### In Washington State...

- If statewide claims and other data sources are provided to ACHs/partners, how will state ensure that available data are timely and produced at required intervals (e.g. for quarterly reporting)?
- If providers/plans are instead expected to use their own internal data for performance measurement, how will state ensure that this is standardized across ACHs?
- What level of analytics and support will need to be given to ACHs and their partners?

Source: Chau, N. & Springer, H, Lessons for Washington 1115 Waiver Participants. Cope Health Solutions, 2015, https://copehealthsolutions.org/cblog/lessons-for-washington-1115-waiver-participants/

## Sample DSRIP Dashboard from New York

#### Department of Health

Information for a Healthy New York

Return to Landing Page

#### Dashboard B4

Medicaid Members by Primary Diagnosis Class (CY 2014)



## High-level differences between WA and NY Medicaid waiver projects

## Washington

#### **Key players**

ACHs, working with providers and plans

#### Overall goal

80% value-based payments by 2019

#### **Funding flow**

No current restrictions on funding flows to nonproviders/plans

#### Data commitment to DSRIP leads

Unclear whether ACHs will have access to anything other than summary-level dashboards/reports

#### Social determinants of health

Intentionally addressed by multiple waiver projects

#### Performance metrics

Will be based on WA state common measure set

#### **New York**

#### **Key players**

Hospitals, working mostly with other providers

#### Overall goal

25% reduction in avoidable hospital use AND 80% value-based payments by end of 5-year waiver

#### **Funding flow**

No more than 5% funding can flow to CBOs

#### Data commitment to DSRIP leads

Substantial investment in building data portals, data extracts, and data dashboards for lead entities

#### Social determinants of health

Limited focus potentially due to dominant role of hospitals AND limited funds to pay for social services and CBO-based efforts

#### Performance metrics

Domain 2-4 metrics moderate overlap with WA state common measure set

Spotlight: Supporting data needs of housing-health partnerships in King County

## Overview of DASHH and Mercy Housing Northwest projects

Shared Vision: Create a more comprehensive housing and health data integration effort to support public reporting, program evaluation, and data for cross-sector investments and elimination of health disparities.

Project	Description & Timeline	Connection to ACH	Data Integration Goal
Mercy Housing Northwest (MHNW): Affordable Housing- Health Integrated Data System	Six -month planning grant from Bill and Melinda Gates Found. (Mar. –Aug. 2016)	MHNW working with Providence CORE to scope what potential integration of WBARS housing data with Medicaid data would take	Annually merge client and building data (WBARS, HUD) into a single database with linked tables for individuals, households, facilities.
King Co. Data Across Sectors for Housing and Health (DASHH)	PHSKC received 18-month grant (Jan 16-June.17) from RWJF to build an integrated data system with the King Co. & Seattle Housing Authorities	RWJ Grant articulated an integrated data system to be built in conjunction with the KC ACH. Performance Measurement Work group to advise & assist.	Establish a regular and bidirectional data exchange between PHSKC and the PH authorities for planning/evaluation.

#### What Integration Opportunities are currently being pursued?

- 1. Commerce's Web-Based Annual Reporting System (WBARS) data as this is not available at the individual identifiable level for ideal linking to other data.
- 2. Integrate WBARS into RDA ICDB: Bringing this source into the RDA ICDB will potentially provide a comprehensive view of housing and other data sources for agency-funded reporting requests.
- 3. Homeless Management Information System (HMIS) moved from City of Seattle to King Co. and the Department of Community and Human Services (DCHS) on April 1, 2016.

## Common data needs across housing-health initiatives

Proposed Datasets being used across Projects	Health and Housing*	DASHH
Web-Based Annual Reporting System (WBARS) Dept Commerce	X	
Homeless Management Information System (HMIS)**	X	
Client-level data from HUD data (PHA 50058)**	X	Х
Medicaid claims P1	X	Х

<sup>\*</sup> Data sources included in the project are HCA Medicaid and public employee health care claims and encounters, Department of Health immunization records, and survey data from the Behavioral Risk Factor Surveillance System and the Pregnancy Risk Assessment Monitoring System.

<sup>\*\*</sup> HUD and HMIS data integrated in RDA Integrated Client Database

## **APPENDIX**

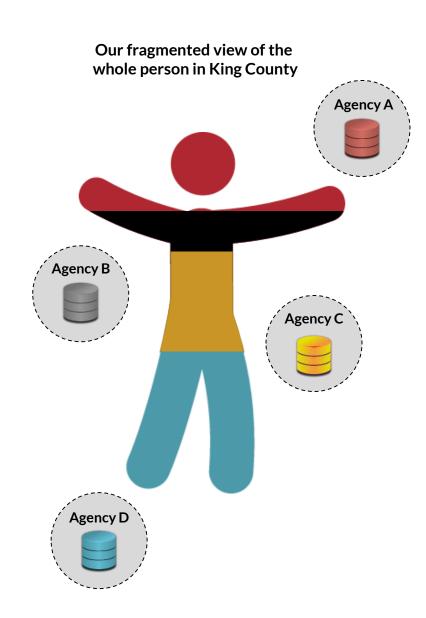
## FOR MORE INFORMATION, CONTACT:

Eli Kern MPH RN | Epidemiologist Assessment, Policy Development & Evaluation Public Health - Seattle and King County

Phone: 206.263.8727 | Email: eli.kern@kingcounty.gov

## Why we are limited in our ability to break down health status by demographics

- In an era of data fragmentation, data systems are program specific and largely do not talk with each other
- This forces us to depend on population-based surveys and vital statistics for much of our health information
- While some vital statistics are linked routinely (e.g. birth and hospitalization), many vital statistics databases and most survey databases are not allowed to be linked for routine public health assessment, monitoring and evaluation
- If all-payer claims were linked to EHR data and human services data on all King County residents, this would create an environment in which we could better understand a fuller picture of individual and community health and identify disparities



## Glossary of Terms

ACH - Accountable Community of Health AIM - Analytics, Interoperability & Measurement APDE - Assessment, Policy Development & Evaluation, PHSKC BHO - Behavioral Health Organization BHRD - Behavioral Health & Recovery Division, DCHS BSK - Best Starts for Kids CBO - Community based organization CDR - Clinical Data Repository, Link4Health COO - Communities of Opportunity COPD - Chronic obstructive pulmonary disease DAJD - King County Department of Adult & Juvenile Detention DASHH - Data Across Sectors for Housing and Health DCHS - King County Department of Community and Human Services DOH - WA State Department of Health DSA - Data Sharing Agreement DSHS - WA State Department of Social & Health Services DSRIP - Delivery System Reform Incentive Payments EDIE - Emergency Department Information Exchange FHR - Flectronic health record EMS - Emergency Medical Services, PHSKC ER - Emergency room **HCA - WA State Health Care Authority** 

HHSTP - King County Health & Human Services Transformation Plan

HMIS - Homelessness Management Information System ILC - Interim Leadership Council JHS - King County Jail Health Services KCIT - King County Information Technology MCO - Managed care organization MD - Medical doctor MH/CD: Mental health/chemical dependency MOU - Memorandum of Understanding PA - Physician assistant PHA - Public Housing Authority PHSKC - Public Health - Seattle & King County PMWG - Performance Measurement Work Group, King County ACH PRSIM - Predictive Risk Intelligence System PSB - King County Performance, Strategy & Budget RWJF - Robert Wood Johnson Foundation SDOH - Social determinants of health SIM - State Innovation Model

VBP - Value-based payments