A Model for a 3-County Regional Health Assessment

Linn, Benton, and Lincoln County

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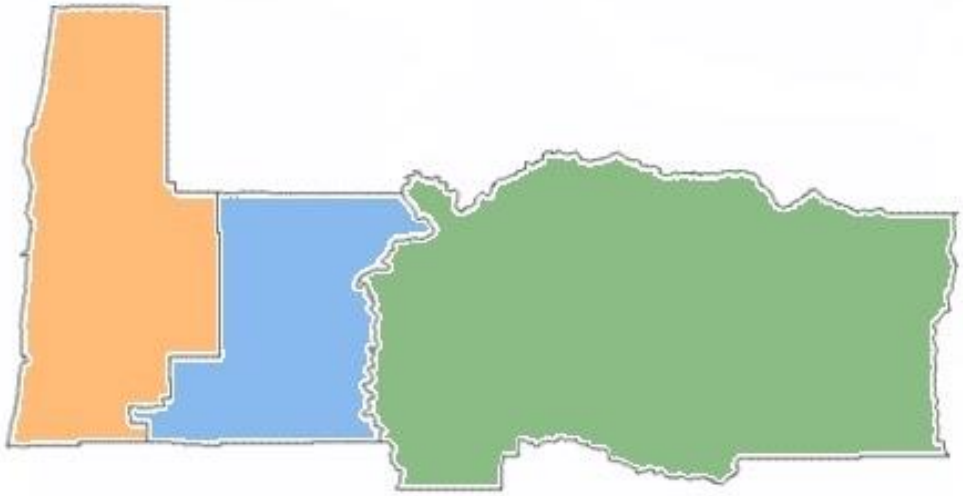
What We Will Cover

- Who we are
- The assessment cycle and regional picture
- Timeline
- RHA model walkthrough
  - RHA report
  - Data warehouse
- Challenges and opportunities

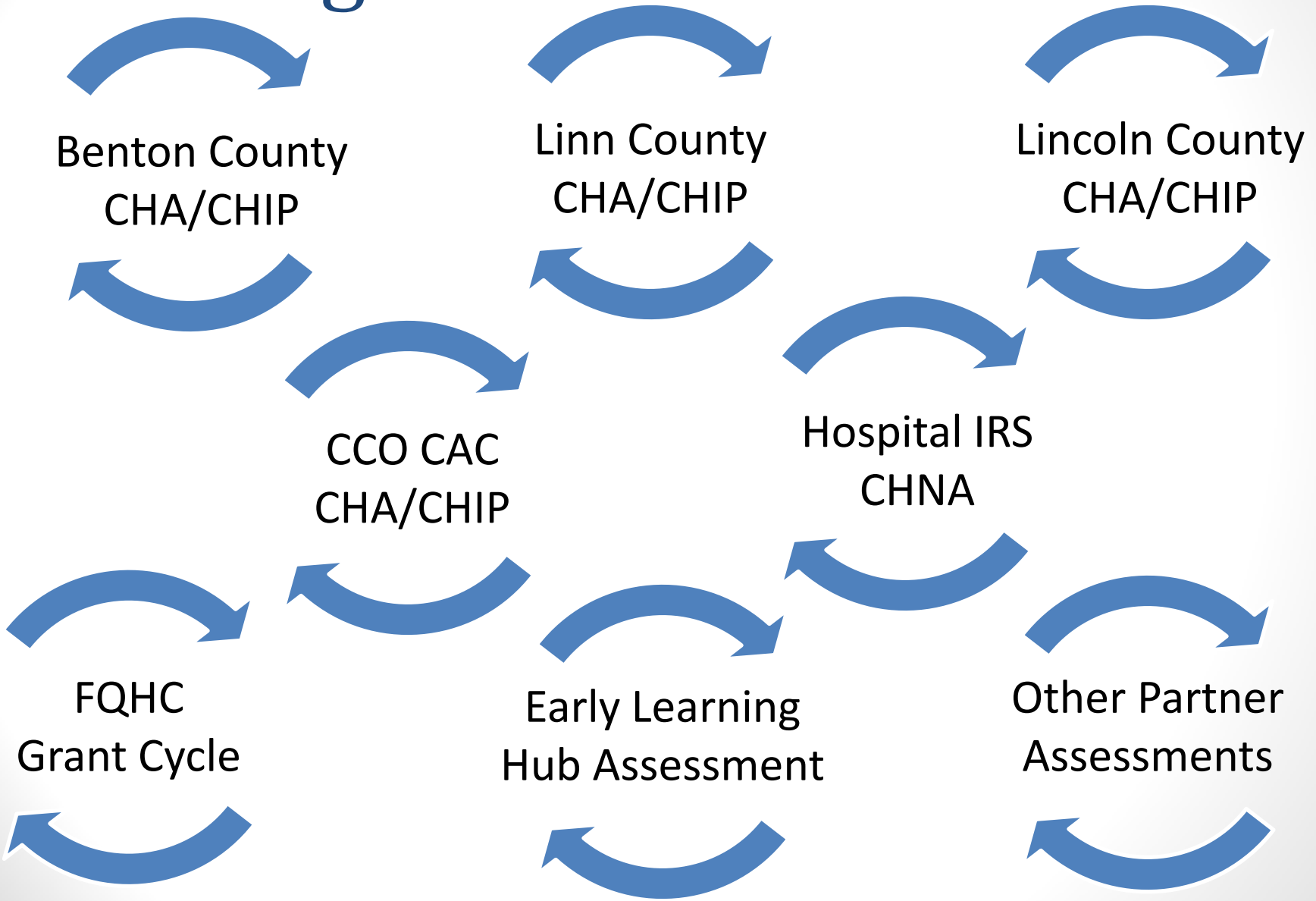
Who We Are

- Linn, Benton, and Lincoln County Regional Health Assessment (RHA)

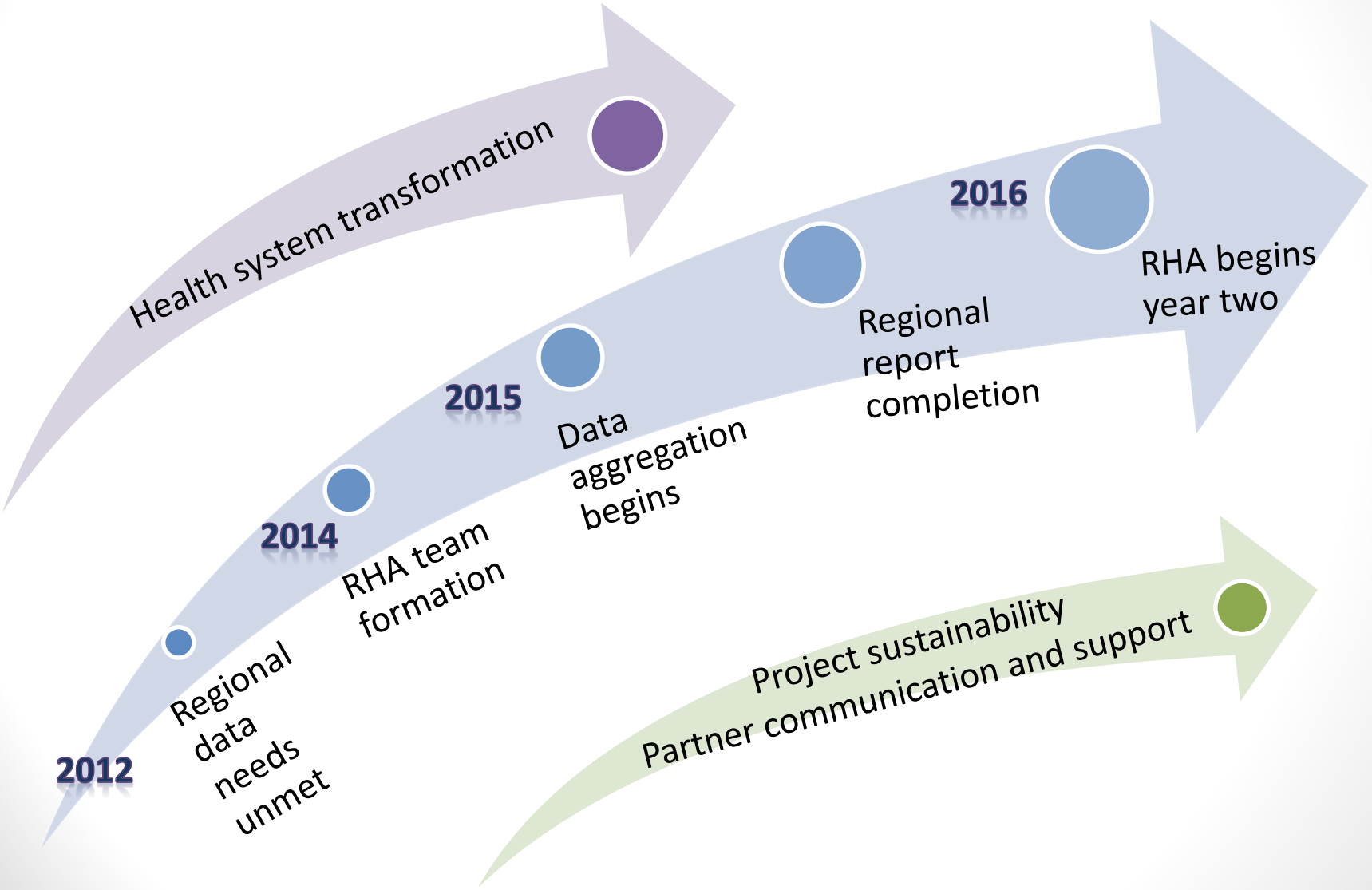


The Assessment Cycle

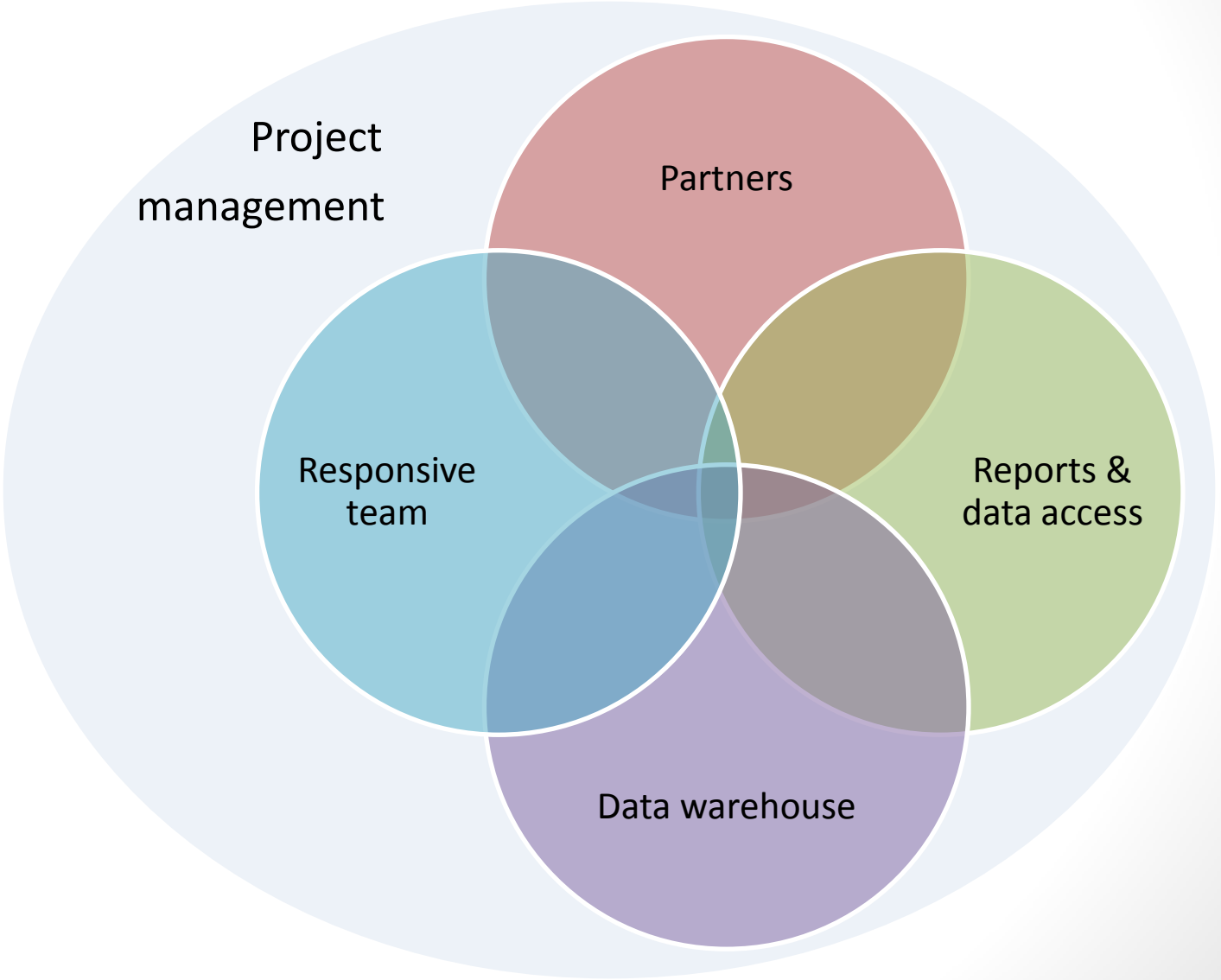
The Regional Picture



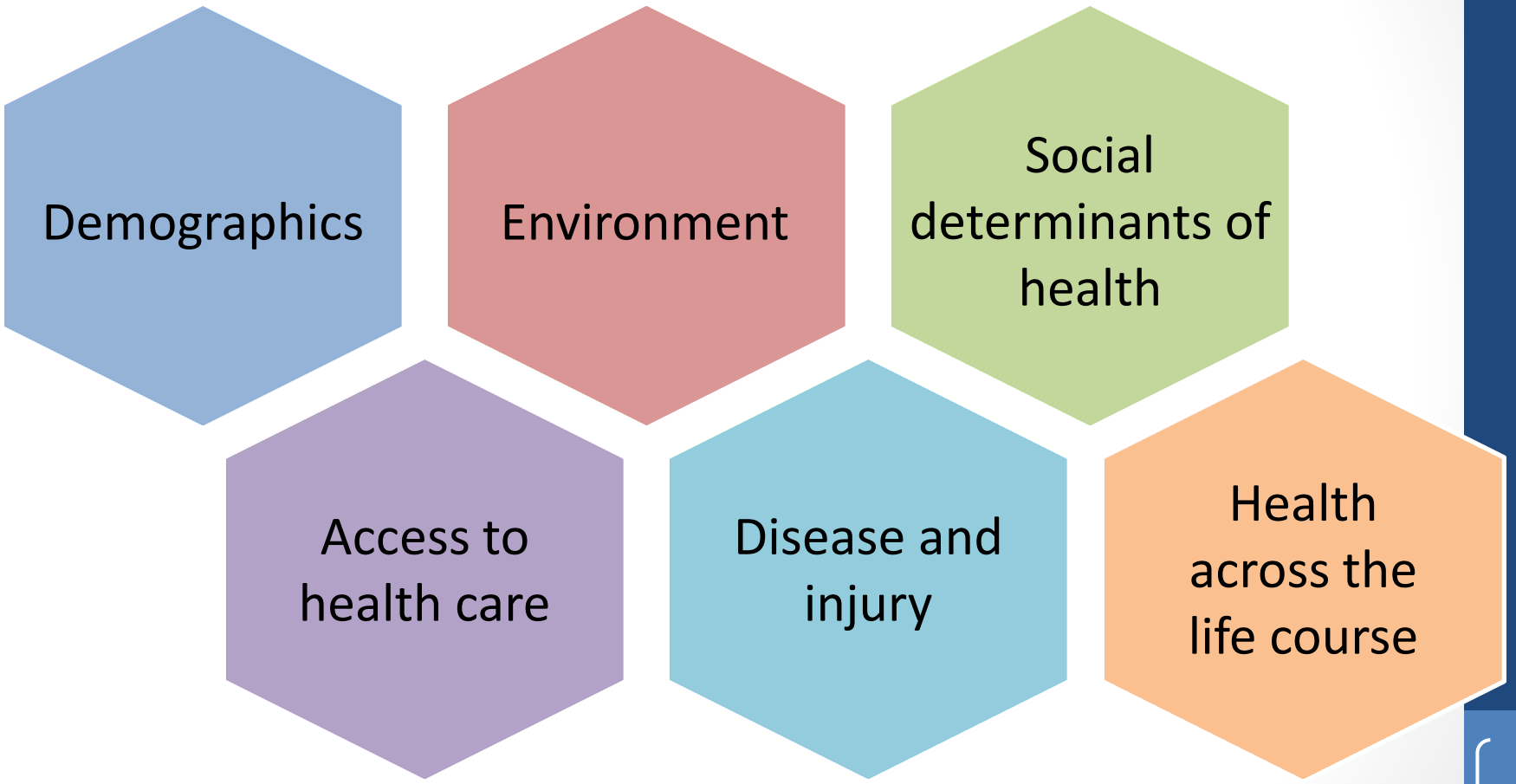
Team Formation and Steps



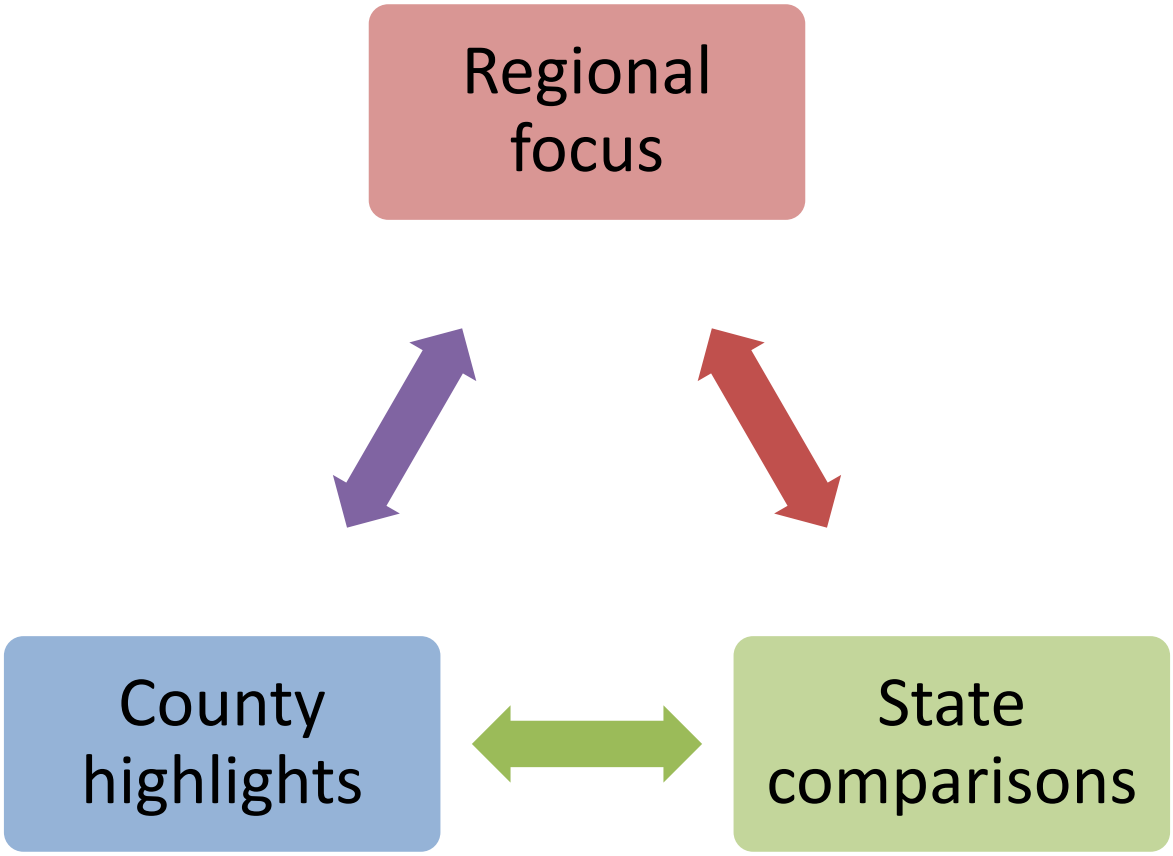
Regional Health Assessment



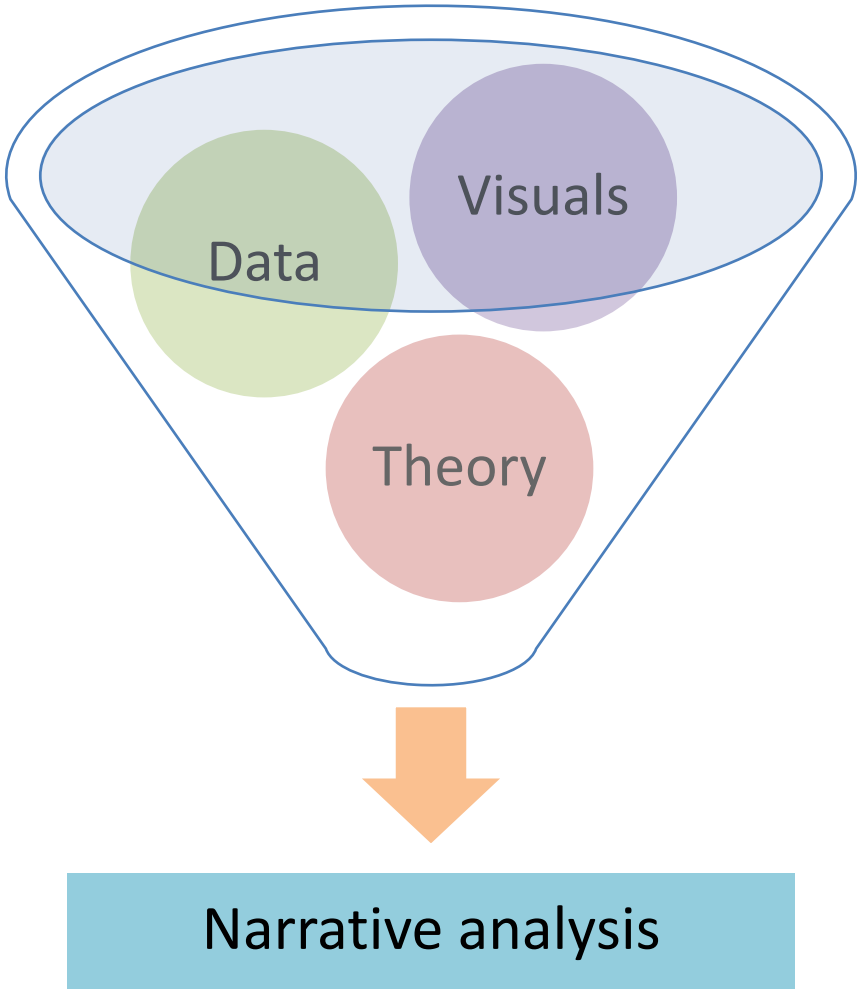
Themes of the RHA



RHA Report

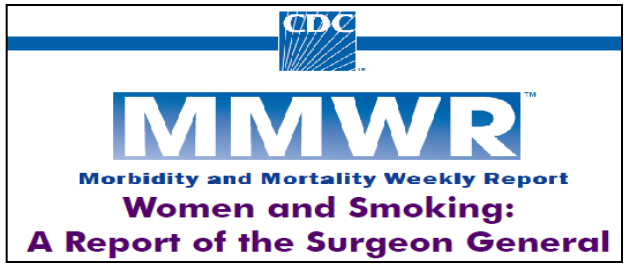


Writing the RHA Report

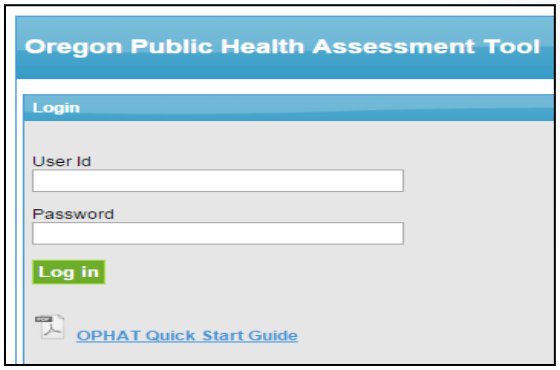


Narrative Report

Theoretical background



Data sources



Data tables

Percent of mothers who smoked during pregnancy

Year	Place	Age Group	Percent
2011 - 2013	Region	15 to 17	18.852
2011 - 2013	Region	18 to 19	29.793
2011 - 2013	Region	20 to 24	23.288
2011 - 2013	Region	25 to 29	13.014
2011 - 2013	Region	30 to 34	8.85
2011 - 2013	Region	35 to 39	8.301
2011 - 2013	Region	40 to 44	9.091

Benchmarks

Narrative and analysis

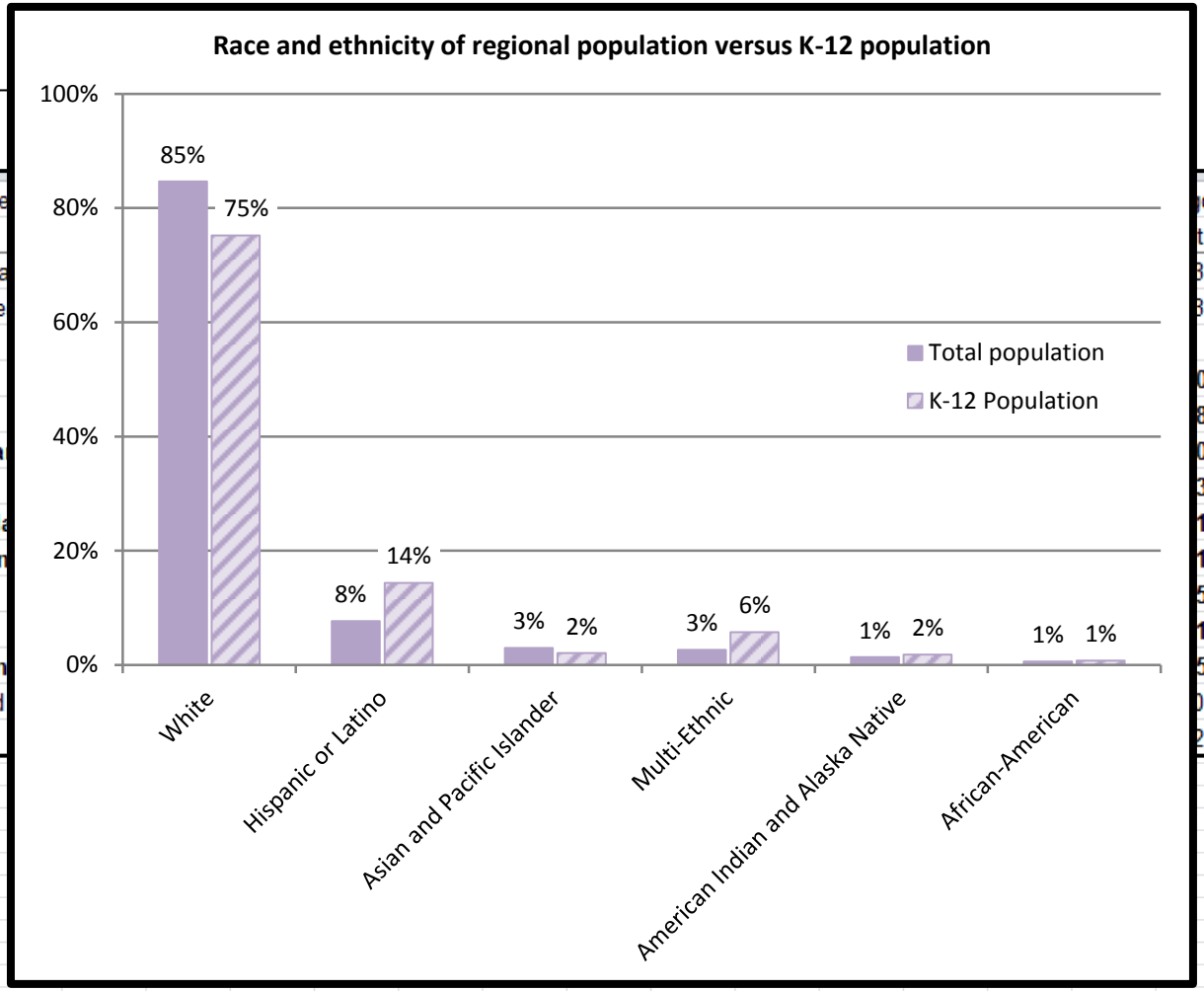
Smoking during pregnancy is the single most preventable cause of illness and death among mothers and infants. Smoking during pregnancy increases the risk of stillbirth, low birth weight, sudden infant death syndrome (SIDS), preterm birth, cognitive and behavioral problems, and respiratory problems in both mother and child.

Children exposed to tobacco before birth are more than twice as likely to become regular smokers themselves later in life, compared with children not exposed to tobacco in utero. Women who quit smoking before pregnancy or early in pregnancy also significantly reduce their risk of prenatal complications.

On average in 2011-2013, 14.9 percent of mothers smoked during pregnancy in the region. This percentage is higher than both the state average of 10.5 percent and the Healthy People 2020 target of 1.4 percent. The age group of 18 to 19 years has the highest prevalence of maternal smoking during pregnancy at 29.8 percent, and the prevalence of smoking during pregnancy generally declines as the age of the mother increases.

Among the counties, the percentage of mothers who smoked during pregnancy varies, ranging from 7.8 percent in Benton County to 17.1 percent in Linn County and 19.2 percent in Lincoln County. While the overall rate of maternal smoking during pregnancy is higher in Lincoln County than in the other two counties, Linn County comprises the highest count of mothers who smoked during pregnancy, with a total of 737 mothers, compared with 249 mothers in Lincoln County and 169 mothers in Benton County.

Data Warehouse



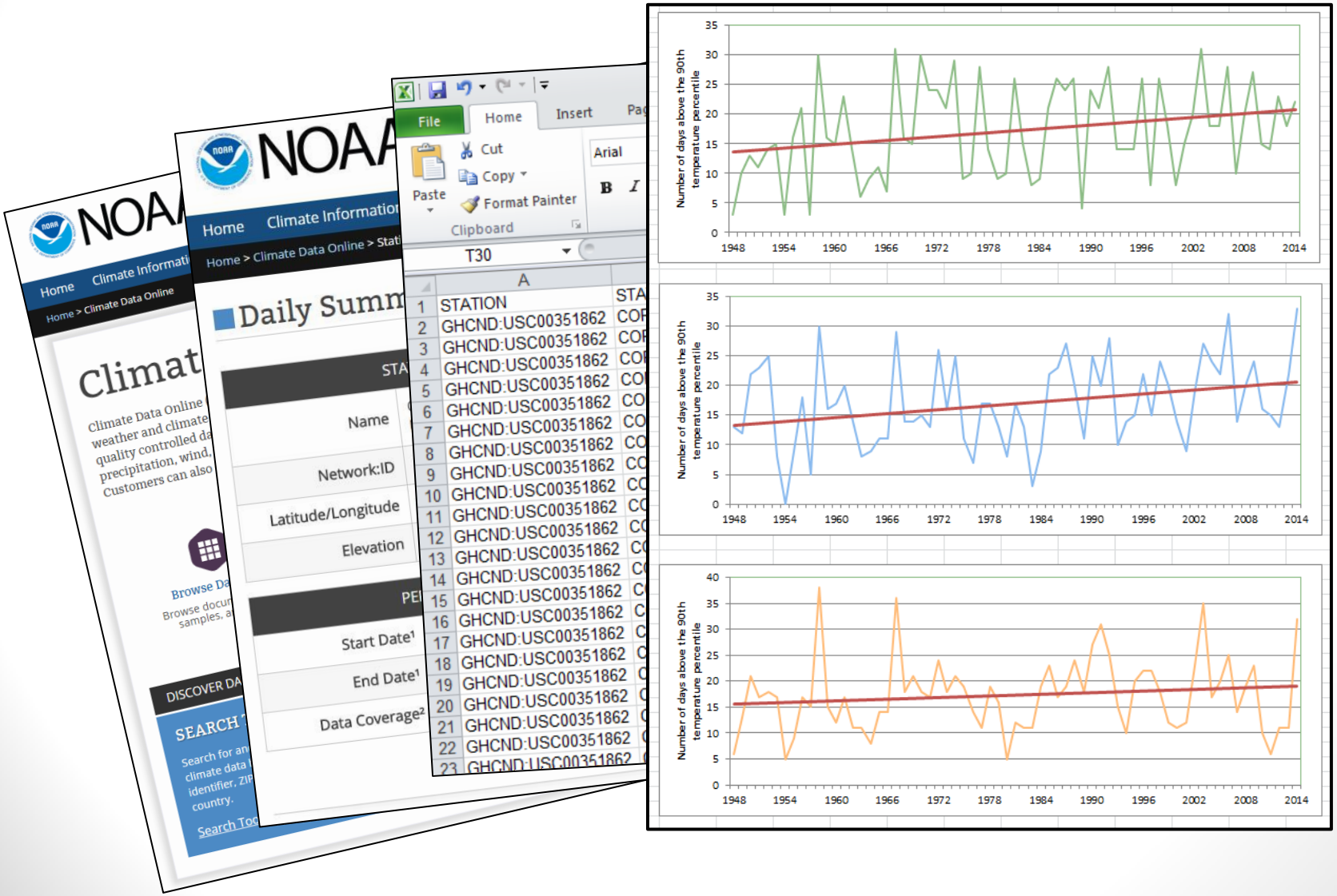
RHA Chapter 2 Data Te
Entry
Veteran Population - Ta
Population of metro are
Number of schools
K-12 Population
K-12 White
K-12 African-America
K-12 Hispanic/Latino
K-12 Asian Pacific Isla
K-12 American Indian
K-12 Multi-Ethnic
K-12 Total Minority
K-12 Population chan
Population 5 years and
Speak only English

on	Region	
t	Estimate	Percent
3.15%	23,101	11.7%
3.71%	152,722	60.9%
	88	(X)
0.00%	36,677	100.0%
8.24%	27,588	75.2%
0.69%	282	0.8%
3.50%	5,277	14.4%
1.13%	762	2.1%
1.12%	662	1.8%
5.31%	2,106	5.7%
1.76%	9,089	24.8%
5.80%	1,264	3.6%
0.00%	237,040	100.0%
2.46%	215,902	91.1%

7/1/2014	Benton	Corvallis S													0	2058	31.06
7/1/2014	Benton	Monroe SD													0	104	23.69
7/1/2014	Benton	Philomath													0	230	14.34
7/1/2014	Lincoln	Lincoln Co													0	1762	33.65
7/1/2014	Linn	Central Lin													0	100	15.38
7/1/2014	Linn	Greater All													0	2582	27.47
7/1/2014	Linn	Harrisburg													0	149	17.37
7/1/2014	Linn	Lebanon C													0	800	18.38
7/1/2014	Linn	Linn Bento													0	22	32.35
7/1/2014	Linn	Santiam C													0	95	17.56
7/1/2014	Linn	Scio SD 9	4329	3477	80.32	50	1.16	388	8.96	54	1.25	67	1.55	293	0	6.77	0	852	19.68
7/1/2014	Linn	Sweet Hor	2402	2084	86.76	9	0.37	136	5.66	26	1.08	29	1.21	118	0	4.91	0	318	13.24

Data Warehouse: Visuals

Example: Annual count of high-temperature days



Data Warehouse: Protocols

Example: Total fertility rates

Chapter 4 data downloads and processing protocols
Updated 8/21/15 by Miyuki Blatt
Data management protocol by Raw_Sheets:

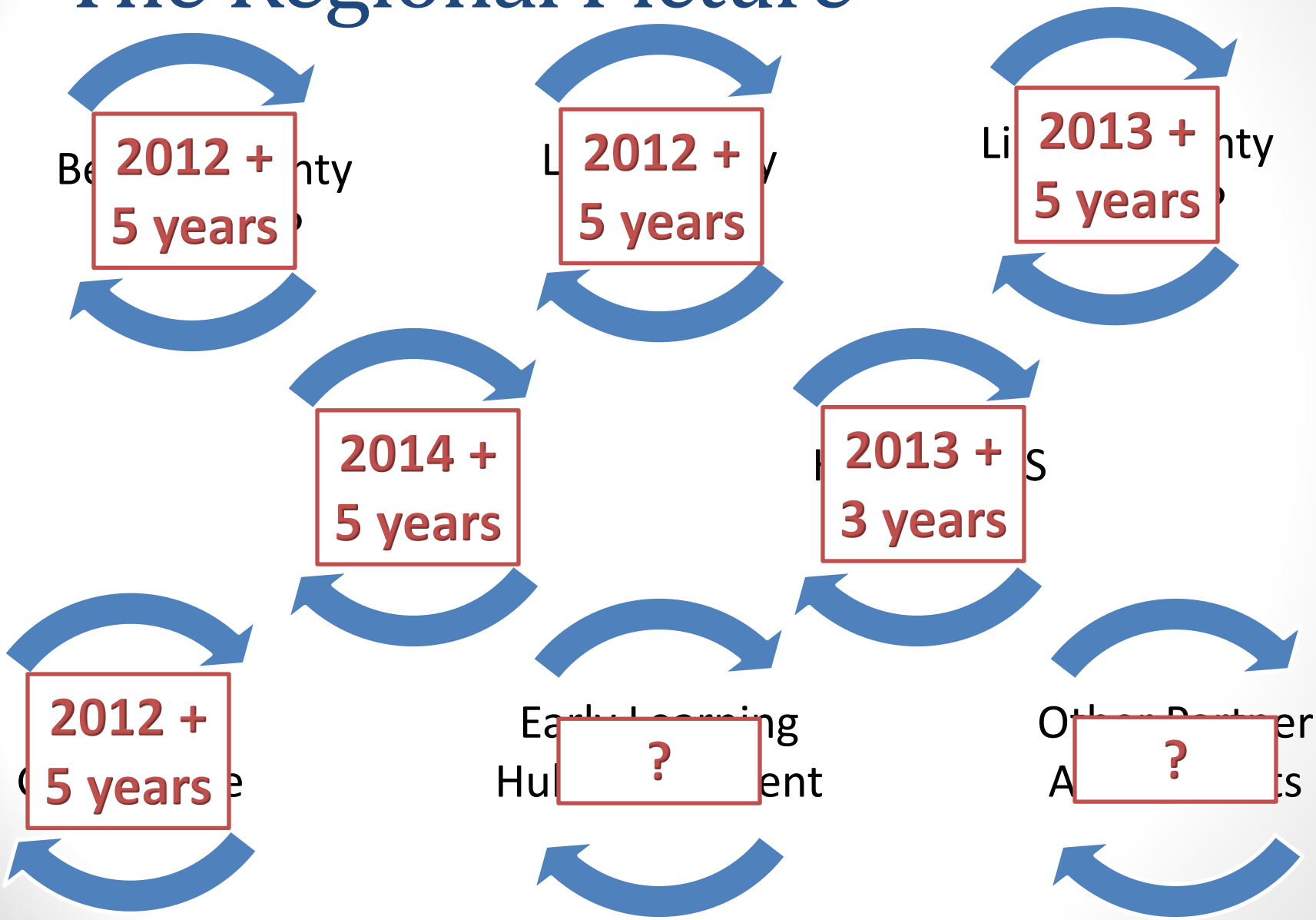
Fertility Rates
Raw_TotalFR_HispNH_Counties
(2011-2013 Total fertility rates per 1,000 women: by Hispanic/Non-Hispanic for Linn, Benton, and Lincoln Counties and Oregon)

- Source: Oregon Public Health Assessment Tool (OPHAT), 2011-2013
- Website: https://ophat.public.health.oregon.gov/Account/LogOn?ReturnUrl=%2f
- Date accessed: 07/2015
- Access Instructions: Obtain an OPHAT account and login.
  - Select "Fertility" under the Dataset tab, then select "Total Fertility Rate" under the Calculation tab.
  - Select the desired counties individually under the "County" option and check the "Include State Totals" box.
  - Select "Hispanic and NH Ethnicity" under the Race/Ethnicity tab and add all.
  - Select the average number of years (3) under the dropdown menu in the Year tab and add the desired dates.
  - Save query under your OPHAT account, if desired, and then run query.
- Standalone file: Total fertility rate_by Hispanic NH_LBL Counties and Oregon_2011-2013.xls
- Processing steps: The data is processed by OPHAT with the above steps. Transpose the data to match the format of the Data Warehouse. Highlight the relevant data lines and copy them into the Master_Sheet.
- Raw_Sheet in Data Warehouse: Raw_TotalFR_HispNH_Counties
- Data fields: xxx

Challenges and Opportunities

- Accommodating cycles with different timelines
- Meeting data and analysis needs of different partners
- Balancing regional focus with counties' needs for specificity and population health focus with partners' needs for data on subpopulations
- Dealing with gaps in local public health data
- Creating a platform for accessible data and dynamic maps
- Using data to generate analyzable questions about the health of the region
- Eliminating redundancy among different health system entities
- Strengthening regional partnerships in community health
- Sealing gaps in local public health data

The Regional Picture



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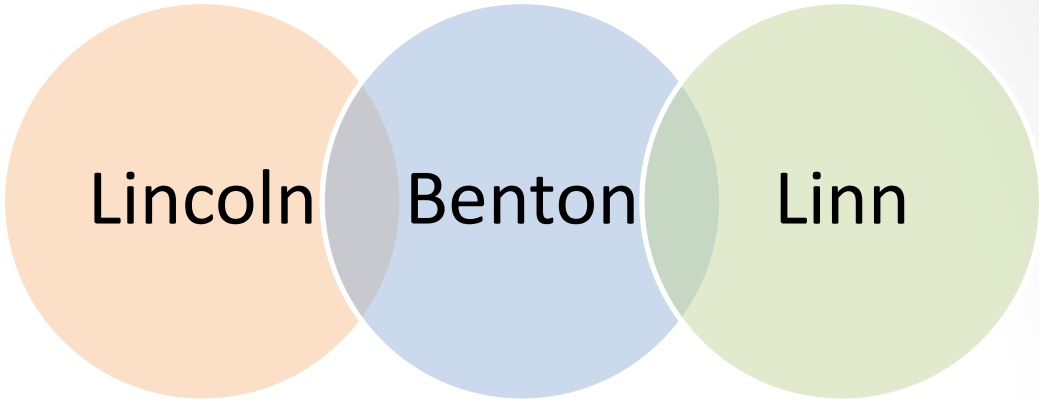
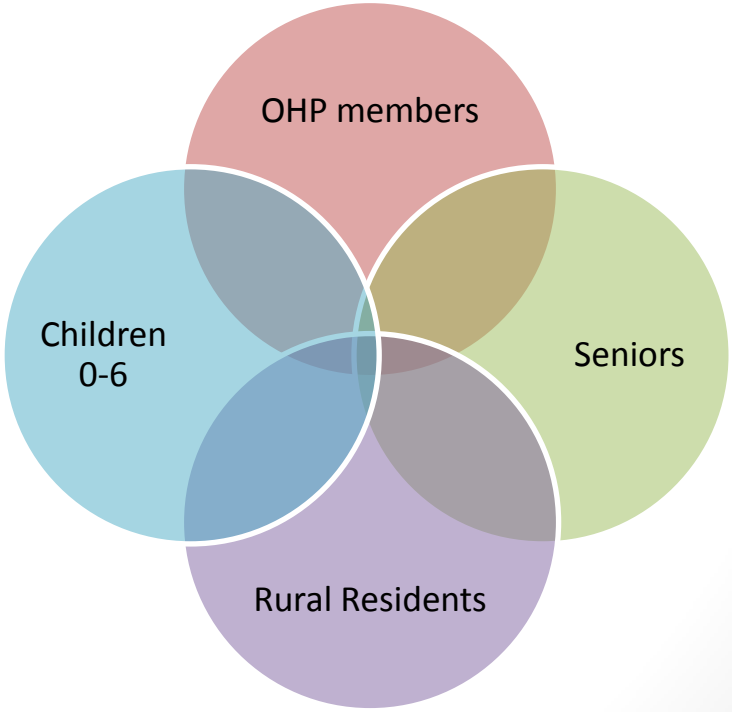
RHA Partner Needs

Geographic variation



Different populations served



(among others)

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Thank You!

Questions?

Contact us at

LBLRHA@Co.Benton.OR.US