

Process Map Webinar

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DOHVE: Design Options for Maternal, Infant, and Early Childhood Home Visiting Evaluation

- Working with US-DHHS to support the federal MIECHV Program
- DOHVE:
 - ✓ Design options for a federal evaluation of evidence-based home visiting programs
 - ✓ Evaluation-related Technical Assistance (TA) for “promising approaches”
 - ✓ TA for grantees’ continuous quality improvement, Management Information Systems (MIS), and benchmarks

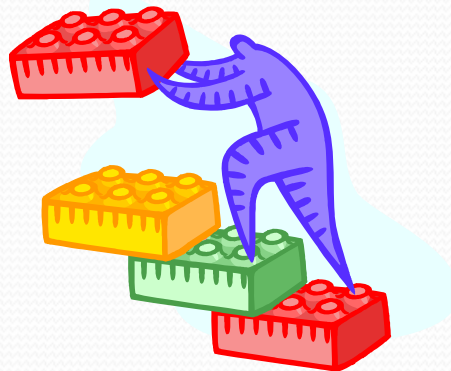


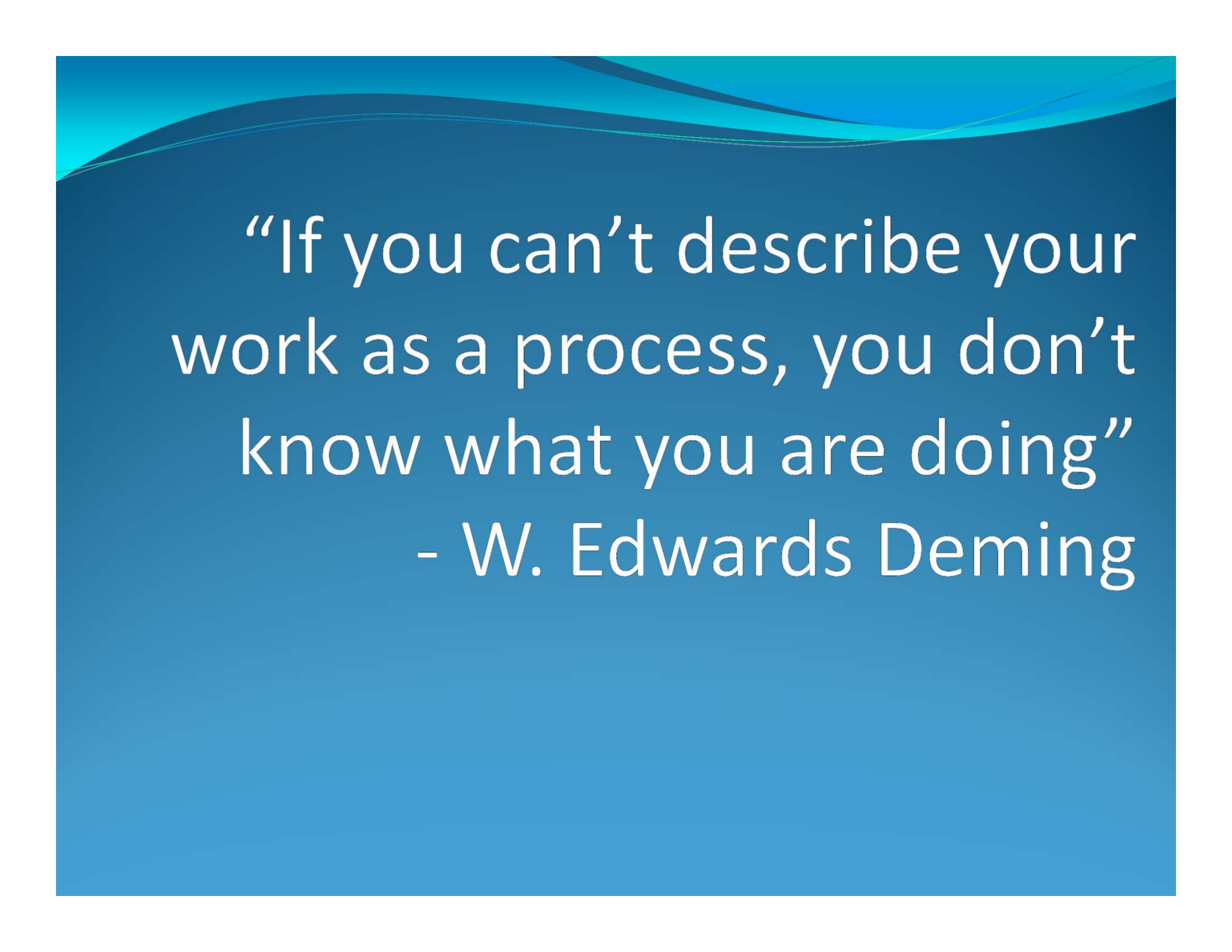
DOHVE TA Team

- James Bell Associates (JBA)
- Cincinnati Children's Hospital Medical Center & Every Child Succeeds
- MDRC

Objectives for Today

- Provide an introduction to process maps
- Illustrate examples of how to develop a process map
- Demonstrate how this tool can be valuable in quality improvement



The background is a solid blue gradient. At the top, there are several wavy, horizontal lines in shades of light blue and cyan, creating a sense of movement or a horizon line. The rest of the background is a uniform, slightly darker blue.

“If you can’t describe your
work as a process, you don’t
know what you are doing”
- W. Edwards Deming



Quality Improvement

- Quality improvement comes from a desire to make things better
- At first glance, quality improvement might seem like more work piled on to an already impossible work load
- But if quality improvement can ultimately lessen that workload, and allow you to provide more efficient/better home visits for your families, leading to better outcomes, isn't it worth it?



What is a Process Map/Flowchart?

- Purpose: Provides a visual diagram or picture of the sequence of steps to complete a task
- Team Learning: Encourages understanding of how a process is implemented, identifies improvement opportunities, and highlights which steps may impact the performance
- Training Aid: Assists in communicating to others how a process is done

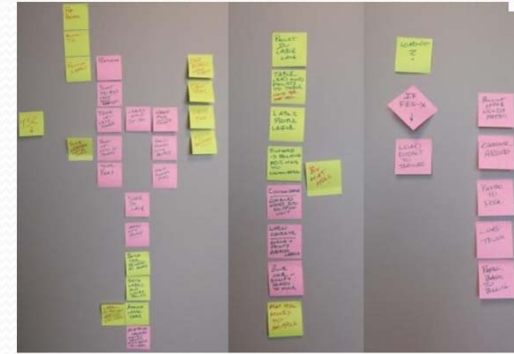


What is a Process Map/Flowchart?

- Shows:
 - Unexpected complexity, unnecessary loops
 - Problem areas (waits/delays/confusion)
 - Outlines the actual versus the ideal flow of the process
 - Possibility for simplification, standardization
 - Contributions to overall product by a variety of roles and individual

Methods

- Pen and paper
 - Markers and white board
 - Sticky notes or cards and a large flip chart or wall
 - Use computer tools- Visio, PowerPoint, etc.
-
- Identify and involve all key people involved with the process
 - Don't worry about drawing it the 'right way' at first
 - Sequence is not important when brainstorming steps
 - Once all ideas are shared, arrange the activities in the proper sequence



Referral

FLOWCHART

**Call forwarded
to Call Center**

**Meet Program
Criteria?**

Y

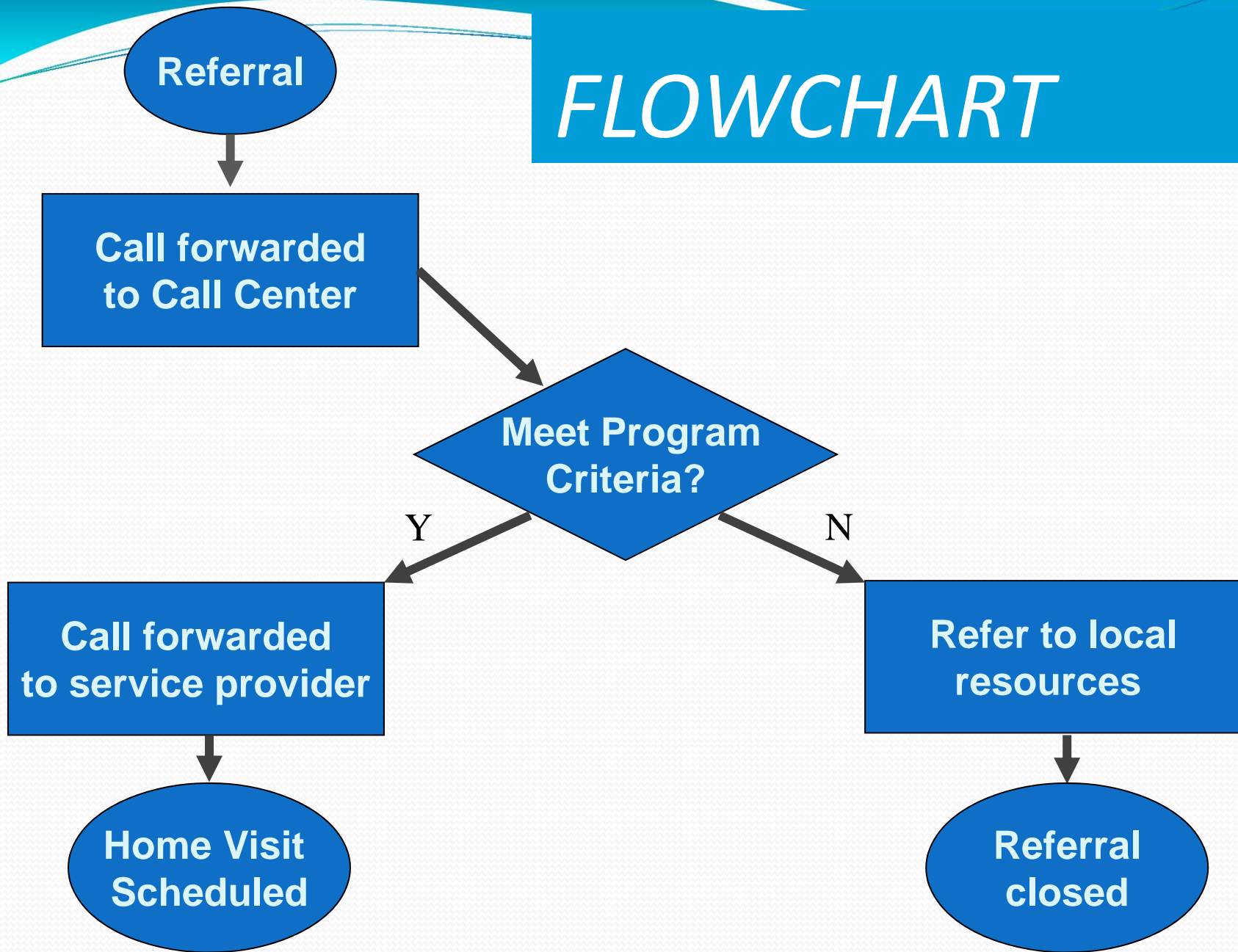
N

**Call forwarded
to service provider**

**Refer to local
resources**

**Home Visit
Scheduled**

**Referral
closed**





Issues in Flowcharting

- Determine the appropriate level of detail
- Consistent use of the symbols
- Who is the audience?
- Boundaries – where does the process start and end?



Getting to Know Your Process

- Develop an AIM statement
- Observe the process in action
- Revise your high level process map to include additional elements based on your observation
- Where are opportunities for the process not to be followed, for problems to arise, or steps that can be eliminated?

It's all about planning for the right outcome





Handy Hints for Identifying Aims

- What is the problem you are trying to solve?
- How do you know it is a problem?
- If you “fix” the problem, how will you and everybody else know that it is “fixed”?
- Should include the measure in the aim statement:
Increase/decrease from X to Y by date.



Pizza Delivery

- Background:
 - You are the owner of a local pizza restaurant that is having difficulty meeting customer expectations. Customers are complaining that they are not getting their pizza on time. You have called a meeting with your staff to ask for ideas to solve the problem.

AIM Statement

By June 30, 2013, 95% of orders will be delivered within 30 minutes of order being placed.

Why:

Increased customer satisfaction

- **S** – Specific (clearly stated)
- **M** – Measurable (measurable numeric goals)
- **A** – Actionable (within the control/influence of your team)
- **R** – Relevant (aligned with the organization's priorities)
- **T** – Time bound (specific time frame)



Observe & Document the Current Process & Collect Baseline Data

- Do process observations
- List the steps of the process
- Create a high level process flow diagram
- Collect baseline data
- Display data on a run chart





Hints to Begin Our Process Map

- Be clear about the purpose of the process
- What is the output/outcome desired by the customer?
- What are the inputs to the process?
- Who are the key customers & suppliers?



Process: Producing & Delivering Pizza

Customer: You

Output: Delivered Pizza

Quality Characteristics:

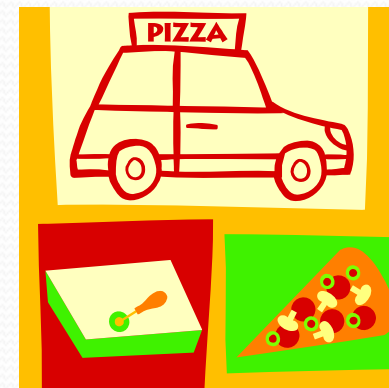
- Tastes good
- Plenty of Cheese
- Received in 30 minutes from when order is placed

Process: Producing & Delivering Pizza

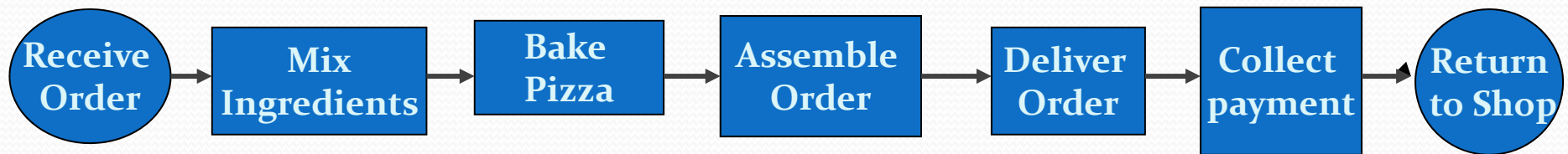
Supplier: ABC Pizza Shop

Process Boundaries:

- Begins with receiving the order
- Ends with returning to the shop



High Level Process: Producing & Delivering Pizza





Measuring Improvement

- While all improvement requires a change- all change is not an improvement
- Determining measures allows you to learn if your change is moving you toward or away from the improvement you are looking for
- Measures should be numeric, clear and specific
- How will we know our pizza's are getting delivered faster?

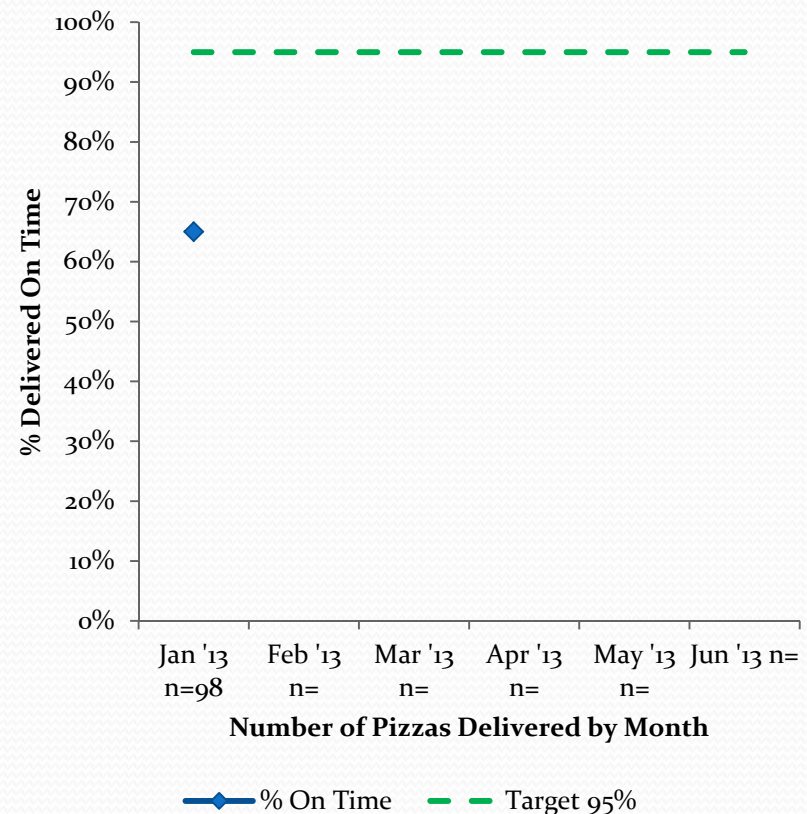
Collect Baseline Data

Reasons for Late Pizza Deliveries:

(Quantifying Process Failures)

- Wrong Address - 23
- Wrong Order - 17
- Not Enough Drivers - 5
- Complex Order - 2
- Driver Lost - 37
- Stuck in Traffic - 12

Pizza Deliveries by Month





Identify & Quantify Process Failures

- For each major step in the process, note what typically goes wrong
- Note the frequency with which each breakdown occurs
- Note which of the breakdowns create the most serious problems with achieving the desired outcome of the process

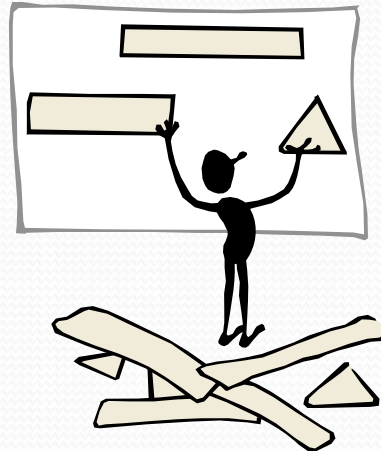


Drivers of Change

- What is ideal or evidence based?
- Important to revisit as you understand the project more
- Help focus the selection of changes to test
- What are the top 5 high level process failures that stand in the way of you achieving your AIM?

WHAT- Defining Our Drivers

- Order recorded accurately
- Pizza needs to be made timely
- Sufficient number of delivery drivers
- Vehicles available and fully operational
- Getting to the delivery location efficiently





Simplified FMEA

(Failure Mode Effect Anal^ysis)

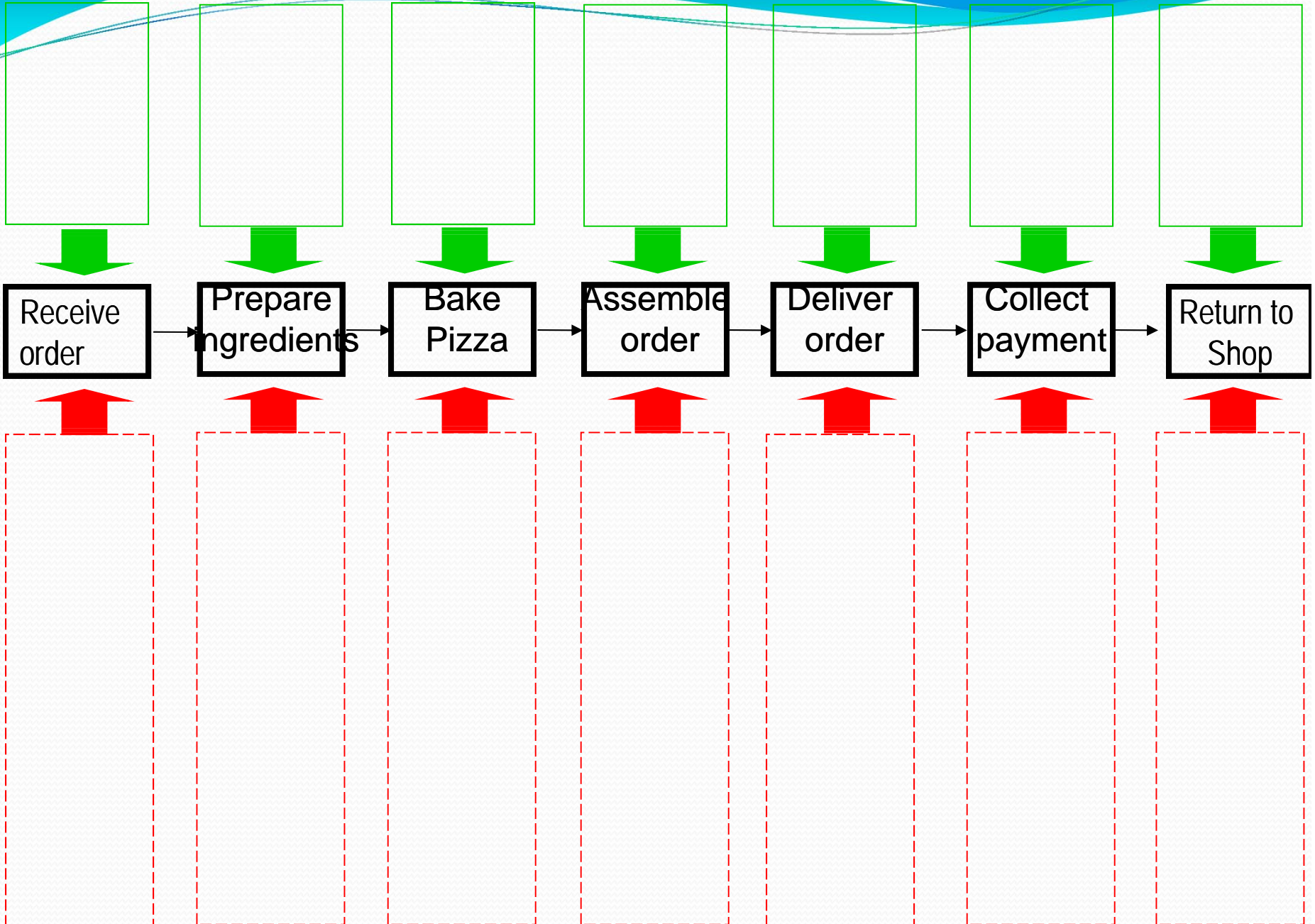
- Create a high level process map/flow chart
- Through brainstorming with your team, identify possible causes of failures for each high level process block
- Ideally, you would collect data to identify the frequency of each cause
- Ideally, you would rate how critical each possible failure is regarding its effect on the desired outcome of the process

Process Name: Producing & Delivering Pizza

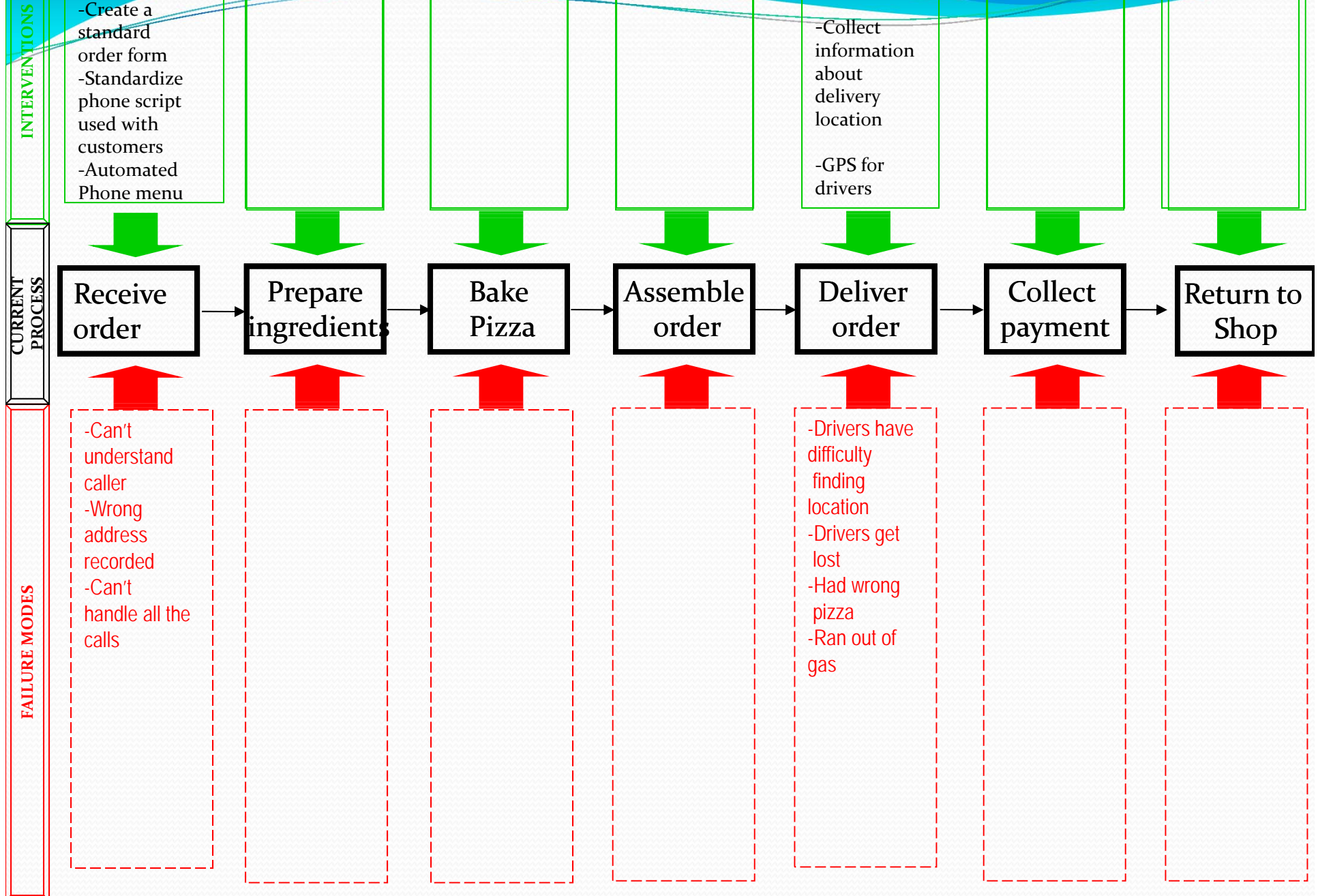
INTERVENTIONS

CURRENT
PROCESS

FAILURE MODES



Process Name: Producing & Delivering Pizza



Small Scale Testing

- Generate a number of ideas- involve representatives from each group that will either be involved in the testing or will be impacted by the change
- Identify which ones are testable
- Test those that are related to your drivers
- Study the results



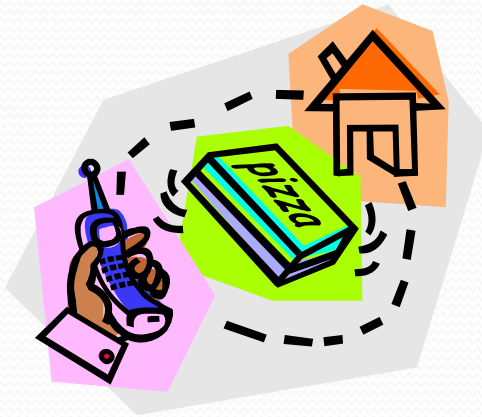


HOW- Improving Our Delivery

- Order recorded accurately
 - Standardize script to collect information from customer
 - Standardize order entry form
 - Pizza makers will know where to find requested toppings and any special instructions
- Automated phone menu
 - Route delivery orders to one line, pick up orders to a different line

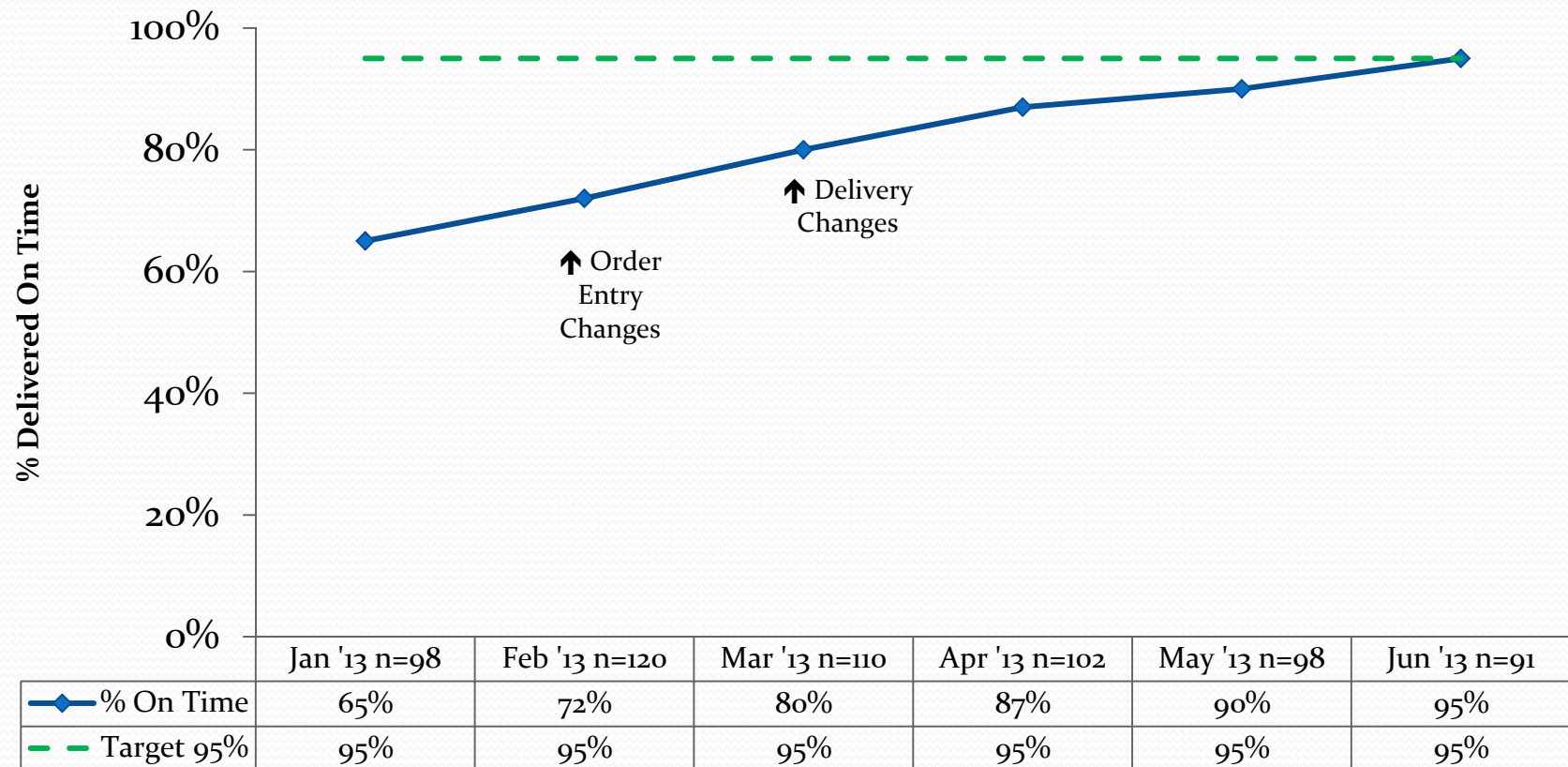
HOW- Improving Our Delivery

- Getting to the delivery location
 - Standardize script to collect information from customer
 - Clarify apartment, house, business, etc.
 - Collect phone number for follow up if needed
 - Provide maps/GPS for drivers

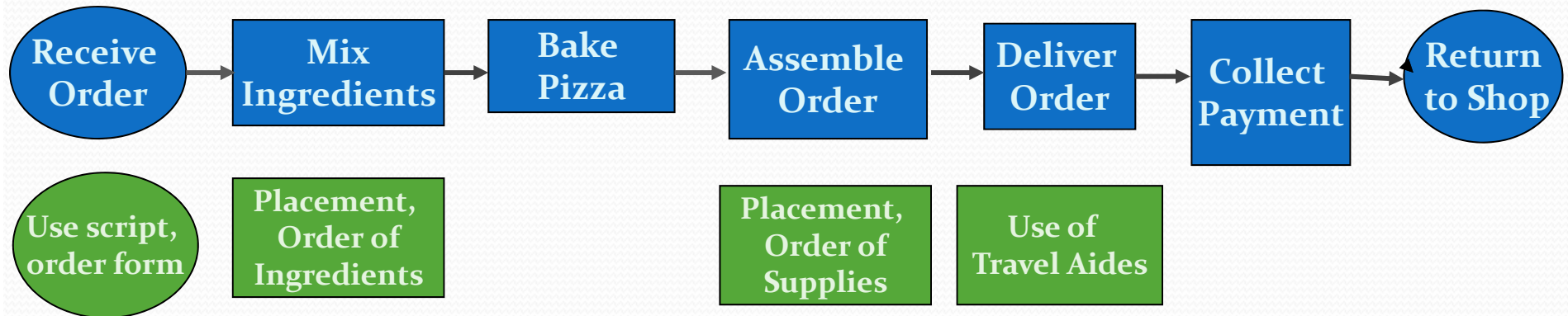


Documenting Our Journey

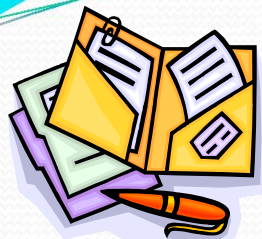
Pizza Deliveries by Month



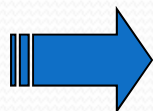
How is our process different now?



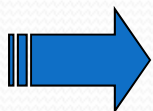
How Elements From The Home Visit Become Quality Indicators



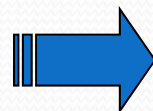
Tools (Family Success Report, Forms Calendar, Home Visit Planning Guide, etc.) are used to prepare for each home visit



Home visit takes place with a blend of curriculum, interacting with child,



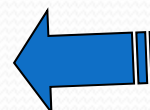
introducing program goals and completing appropriate forms and inventories.



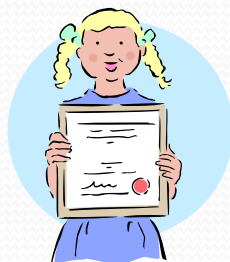
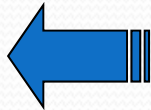
Paperwork from visit is collected accurately as indicated by the developmental period



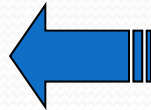
Home Visitor enters information into database timely and accurately



Using data collected over time, home visitor reviews the scores and outcomes associated with the forms and inventories collected. She takes this information in addition to the curriculum and plans for the next home visit.

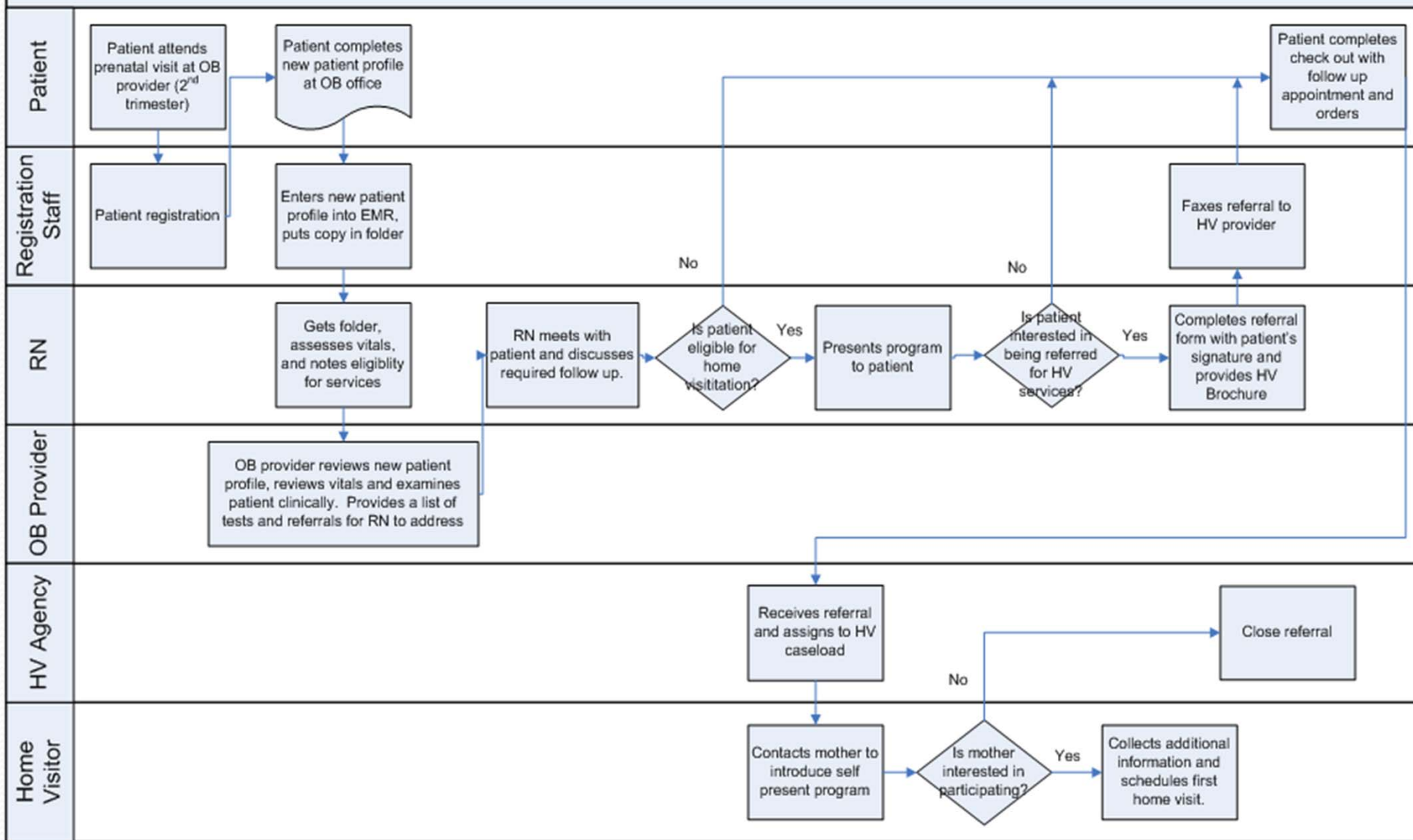


One month after the developmental period is complete, the home visitor celebrates the age based milestones achieved with the family.

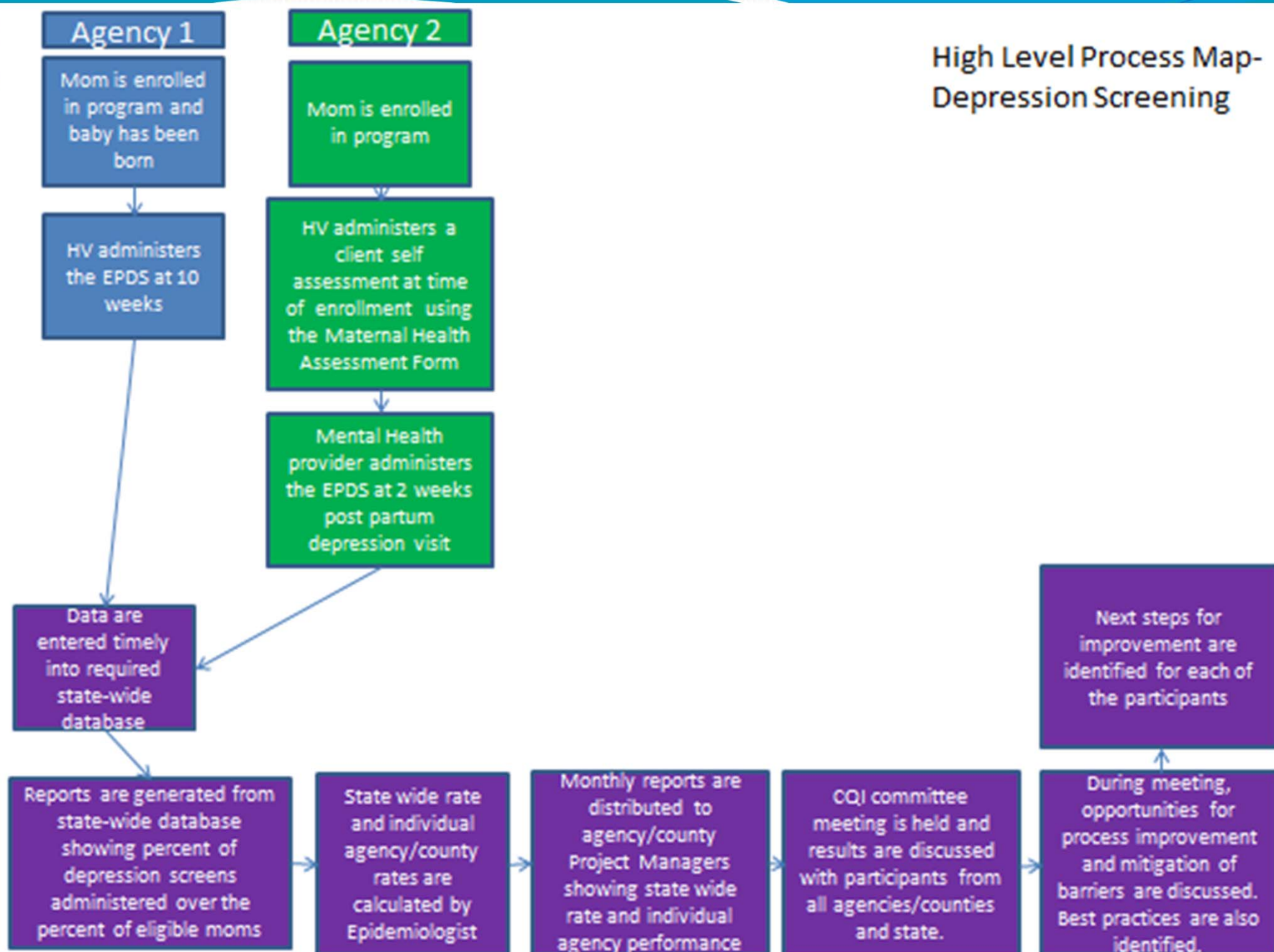


Reports are created by analyzing the data entered into the database. Sixteen Quality Indicators summarize achievement of the age based milestones for the eligible families at each agency. Additionally data is analyzed for achievement by the system.

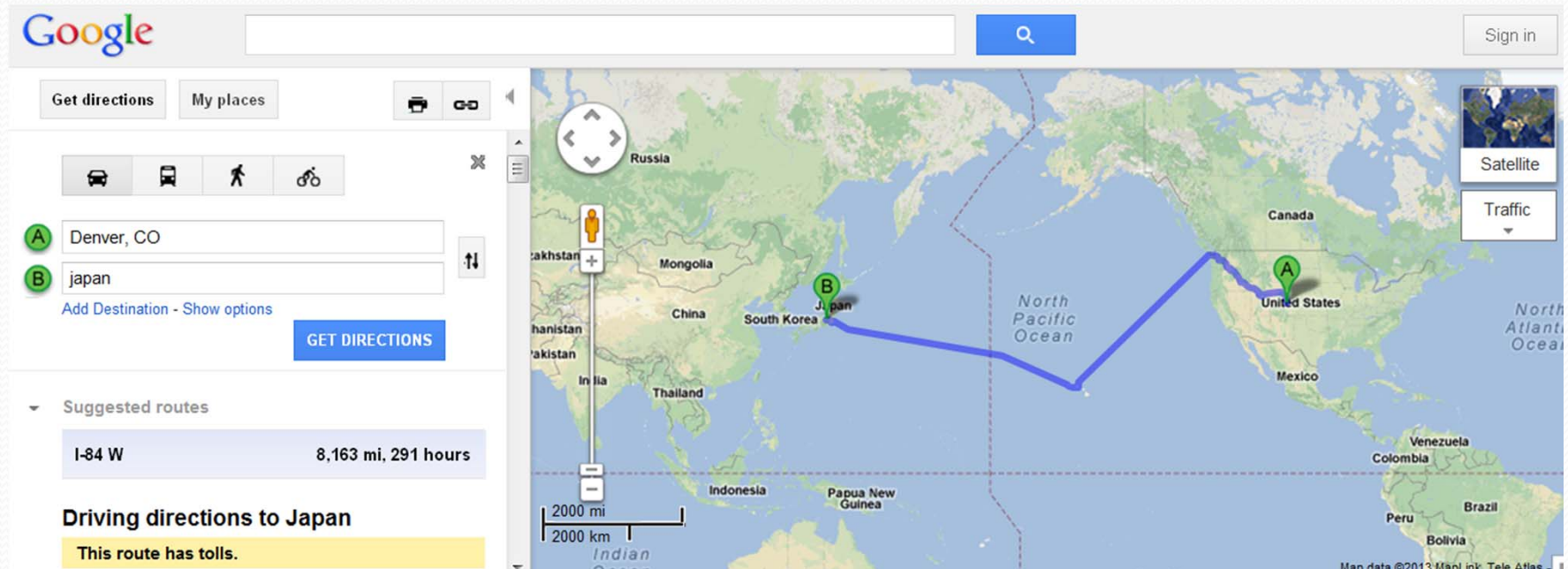
Prenatal Referral for Home Visiting Services



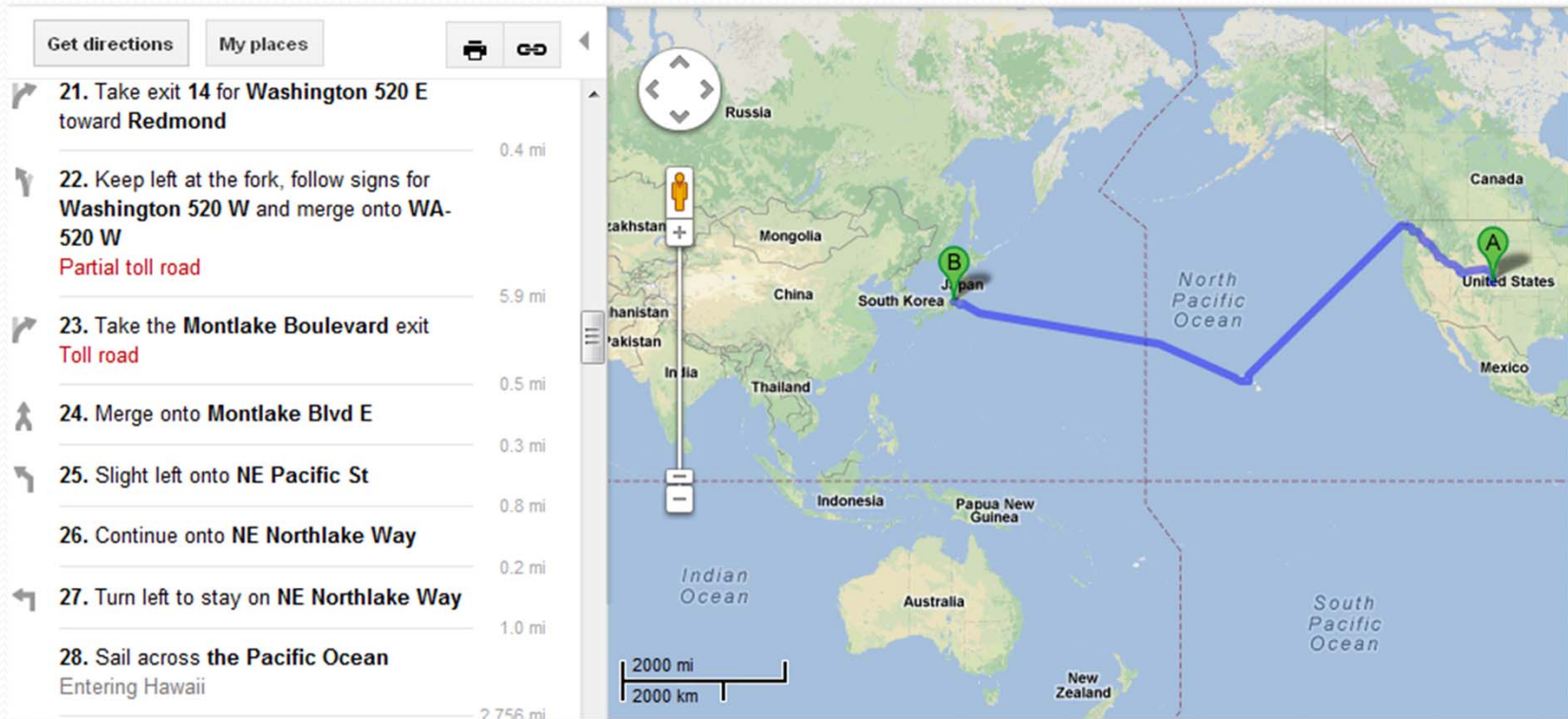
High Level Process Map- Depression Screening



Make it easy to do the right thing



Minimize steps to accomplish task but maximize opportunities to avoid system failures



Build redundancy into the system- protect against single component failure

The image is a screenshot of the Google Maps interface. On the left, a list of directions is displayed, starting with '21. Take exit 14 for Washington 520 E toward Redmond' and ending with '29. Continue straight'. The route is highlighted in yellow on the map. A street view image of a local intersection is shown in the top right. The map includes labels for streets such as NE 40th St, NE Pacific St, and NE Northlake Way. A scale bar indicates 500 ft and 200 m. The map data is attributed to 2013 Google.

Get directions My places

21. Take exit 14 for Washington 520 E toward Redmond 0.4 mi

22. Keep left at the fork, follow signs for Washington 520 W and merge onto WA-520 W Partial toll road 5.9 mi

23. Take the Montlake Boulevard exit Toll road 0.5 mi

24. Merge onto Montlake Blvd E 0.3 mi

25. Slight left onto NE Pacific St 0.8 mi

26. Continue onto NE Northlake Way 0.2 mi

27. Turn left to stay on NE Northlake Way 1.0 mi

28. Sail across the Pacific Ocean Entering Hawaii 2,756 mi

29. Continue straight

NE 40th St NE Pacific St NE Northlake Way

Benjamin D. Hall Interdisciplinary Research (RTB) Publications Services Bldg (PSV) Offshore Cafe 668 North Passage Point Park

NE 40th St NE Pacific St NE Northlake Way

500 ft 200 m

Map data ©2013 Google



Final Thoughts...

- Have clear identification of process owners and steps to success
- Analyze process outcomes, not just final goal. Process matters!
- Be transparent- we are learning our way into a new system, failures or learning opportunities are to be expected!



**“If you can’t describe your work as a process,
you don’t know what you are doing”
- W. Edwards Deming**



For More Information

- Contact your DOHVE Liaison
- http://www.mdrc.org/dohve/dohve_resources.html