



Enhancing Management of EPI Programs through strategic use of data in Nigeria

Leadership, Management and Coordination Support for the Expanded Program on Immunization



Course Title: Problem Solving

July, 2024



Gavi
The Vaccine Alliance



Problem solving module objectives



In this training, we will learn about the 7-step approach to problem-solving, with a focus on:

- Define SMART problems
- Create issue trees to break down problems into components
- Prioritize possible activities to solve defined problems
- Develop analysis plans
- Conduct appropriate analyses
- Synthesize results and understand implications of solutions
- Communicate recommendations to stakeholders

Why do you think you need this training?

- What do you expect to achieve today?
- Are there other specific problem-solving competencies that you would like to learn about?
- Why do you think this session will be important to you?



We encounter different types of problems everyday in our workplaces

Problems	Description	Example
Obvious	<ul style="list-style-type: none">▪ Your options to solve the problem are clear▪ The cause-and-effect relationships are apparent to everyone	<ul style="list-style-type: none">▪ The office printer does not print in clearly defined colours
Complicated	<ul style="list-style-type: none">▪ There may be several “correct” solutions to the problem▪ Cause-and-effect relationships are not apparent to everyone	<ul style="list-style-type: none">▪ High malaria prevalence in certain states
Complex	<ul style="list-style-type: none">▪ It might be impossible to identify one “correct” solution▪ Cause-and-effect relationships are not apparent	<ul style="list-style-type: none">▪ High staff turnover rates in an apparently “great” organization
Chaotic	<ul style="list-style-type: none">▪ No relationship exists between the cause and effect	<ul style="list-style-type: none">▪ How to resolve a fake rumour about abdominal vaccinations

Are there other examples of these problems you can think of?

Problem solving is the process of finding solutions to difficult or complex issues



Problem



Problem solving



Solution

Having an effective approach to solving problems is a critical component of any worker's toolbox

What does problem-solving mean to you?

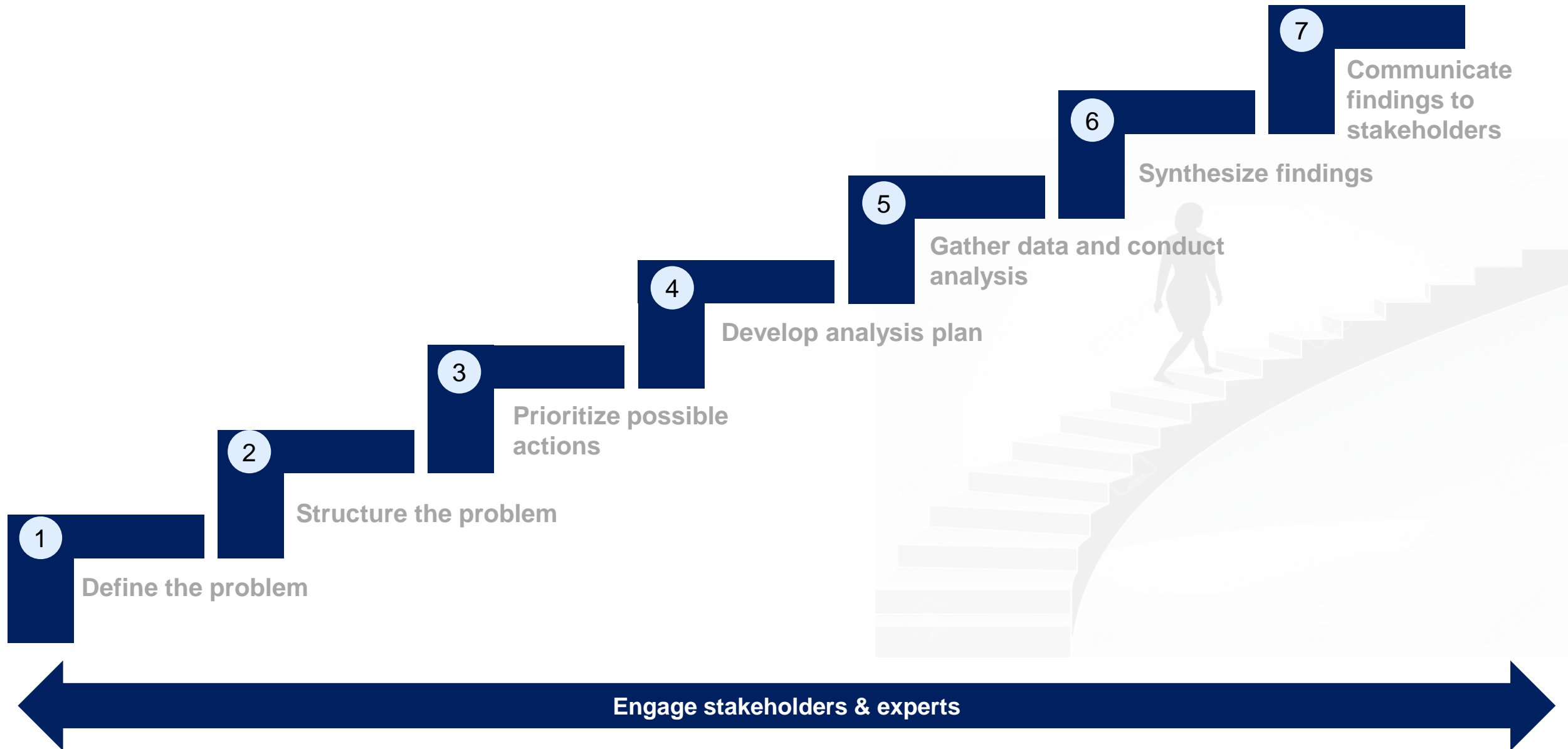
Problem solving is a pre-requisite for effective decision making

Problem solving is:

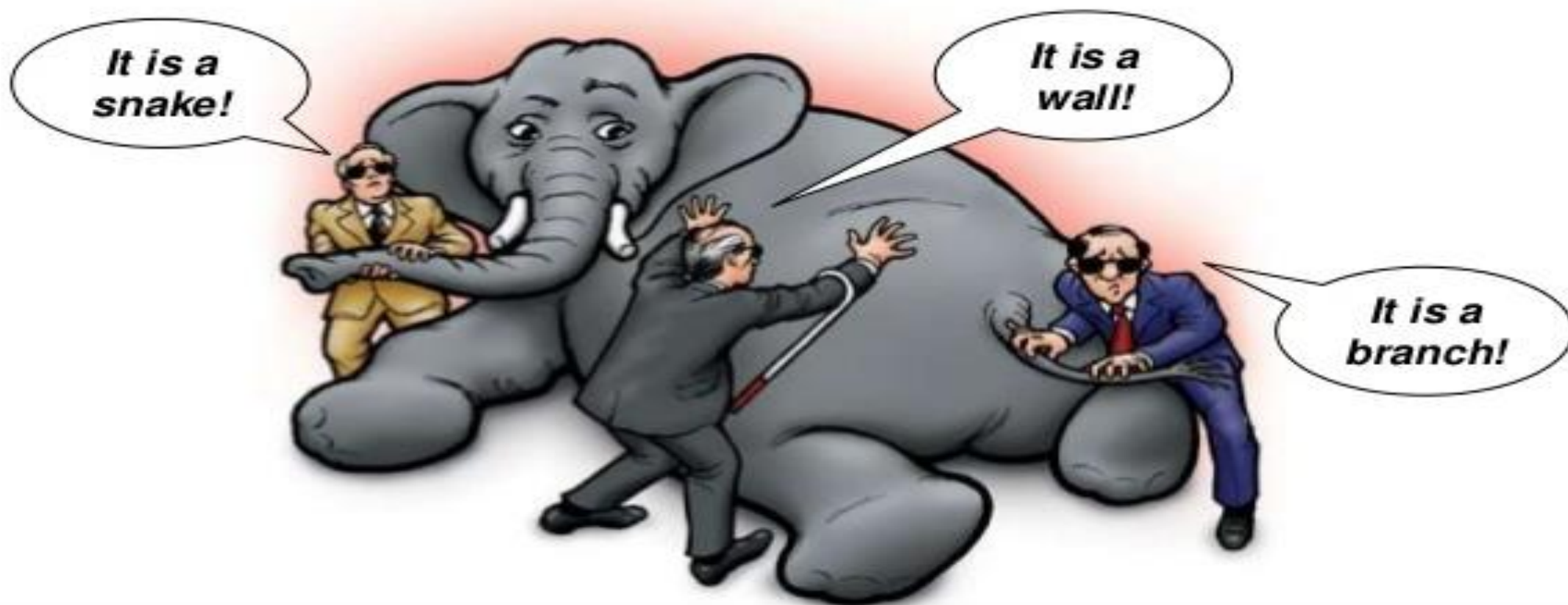
- Usually analytical and involves critical examination of the facts or data
- Aimed at presenting choices for decision makers to guide future direction



The 7-step approach to problem solving



The Blind Men and an Elephant



- Problems are often perceived differently by different people
- It is important to define a problem correctly to increase the chances of arriving at the right solution

Define the problem

Successful problem solving
requires finding the right
solution to the right problem.
We fail more often because we
solve the wrong problem than
because we get the wrong
solution to the right problem.

Russell L Ackoff



A well defined problem must meet 2 criteria

A

The problem statement must be a **question** or a **firm hypothesis**



B

The problem definition must be **SMART** and focus on what the decision maker needs to move forward



The problem statement should also be concise

1A Example of a good problem statement

Shittu needs to increase the SMS data reporting significantly within the next year as the Regional Data manager at the Dosso EPI



Statement of fact

Shittu can improve reporting on DHIS2 through effective central to regional supportive supervision



Hypothesis

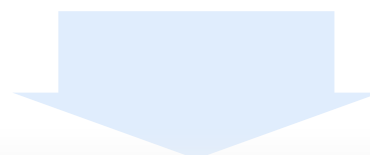


The EPI at the central level needs to deliver technical assistance to the EPI across regions



Too general

How can the Central EPI ensure that all regional EPI have comprehensive workplans?

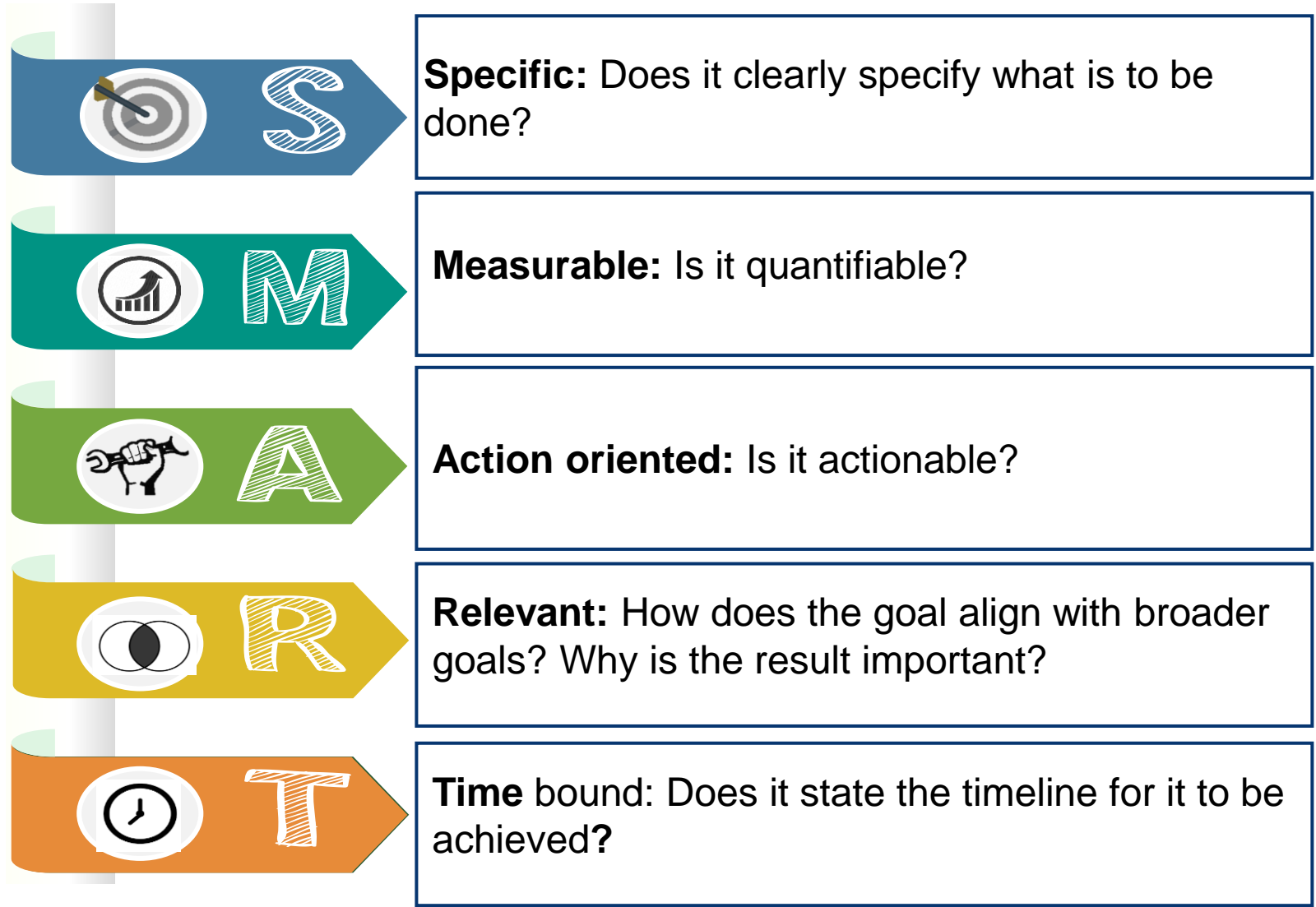


Question







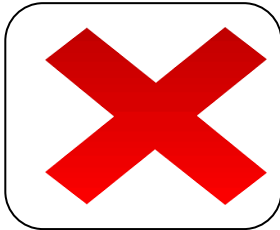


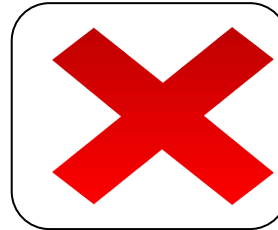
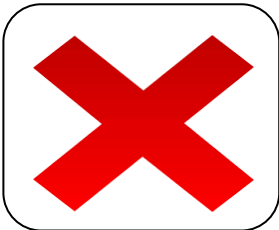
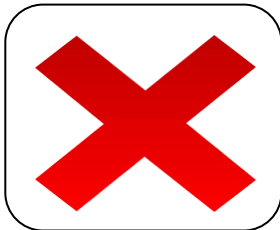


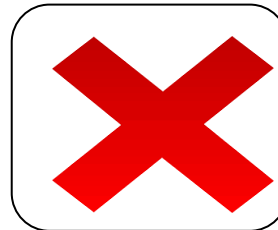


A good problem statement lends itself to being proved or disproved

1B An accurately defined problem statement must be SMART



1B An example of a SMART problem statement

Problem Statement	Specific	Measurable	Action oriented	Relevant	Timebound
1. How will KSPHCDA build five PHCs across 2 LGAs to revitalize the primary health care system in by Dec 21, 2024?					
2. How can all LGAs reduce stock out rate for vaccines across PHCs?					
3. The commencement of discussions around the extended paid maternity leave to 24 weeks as a means of improving the health and welfare of the mother and child					

1 The problem definition must be documented for clarity and shared for alignment with your team and other stakeholders

Basic question to be resolved

SMART articulation of problem to be solved

Initial situation

What is the situation?

What do we need to be aware of to solve the problem successfully?

Is there any special context?

Decision makers

Who decides? Who can derail?

Other stakeholders

Who needs to be kept informed?

Success criteria

How will we know if we have succeeded? What metrics could we measure?

Constraints

What things can we **not** change on 'playing field'?

Project scope

What are the boundaries of the 'playing field' that we can look at?

Introduction to example case: Hassan's money problems

Hassan works for the Kebbi State Primary Health Care Development Agency and loves playing polo with his friends. He is married with five children.

He currently earns about 300,000 naira monthly as a grade 13 staff. He however owes 1 year's rent worth 600,000 naira; his 5 children's school fees of 250,000 naira; and Aliyu his colleague 150,000 naira.

Hassan needs 1,000,000 naira to pay all these debts in the next 3 months and cannot borrow any money from anybody he knows. He has no investments and does not condone illegal practices.

As a trusted friend, Hassan has called upon you to help with solutions to resolve his financial challenges.



We will now help Hassan to define his problem in a bid to solve it

Example of a good problem statement

“How can Hassan have an extra 700,000 naira to repay his debts in the next 3 months?”



- **Specific**
- **Measurable**
- **Action-oriented**
- **Relevant (to the key problem)**
- **Time-bound**

1 Example: Let us articulate a problem statement for Hassan

Basic question to be resolved

“How can Hassan have an extra 700,000 naira to repay his debts in the next 3 months?”

Initial situation

- Hassan is a family man who works at the regional EPI. He has incurred a large amount of debt, and needs to find a way to source for extra 700,000 naira to pay off his debts
- Hassan’s debtors are quite inflexible, and will not allow him additional time to raise the money

Success criteria

- Repay all debt in full
- Have a plan for avoiding future debt and having regular access to discretionary income

Project scope

- Hassan’s income
- Hassan’s and his family’s expenses

Decision-makers

- Hassan
- Hassan’s wife

Other stakeholders

- Hassan’s children
- Hassan’s creditors

Constraints

- Timing: Hassan must come up with the money in the next 3 months
- Work schedule: Hassan currently works a fixed number of shifts/hours each month
- Ethics: Hassan is only willing to consider legal means of finding money

Introduction to problem case: Argungu Overcrowding Dilemma

The KBSPHCDA has spent 50,000,000 naira on publicity campaign to achieve the EPI's 2021-2025 strategic plan. The campaign led to a massive influx of the residents to health facilities around them.

As a result of the influx of clients, immunization indicator numbers have drastically improved. However, this influx also caused the clients at the health facilities to wait for long period – over 45 minutes, before they can meet the service provider for immunization.

From previous assessment, the LGA understands keeping clients for over 15 minutes before consulting with the service provider, inhibited majority of the population from using the health facilities.

To avoid losing its recent gains, the LGA immunization officer has requested technical assistance from the KBSPHCDA, in solving the long patient wait-time in its health facilities.

As a staff within the KBSPHCDA, your director has asked you to help solve the challenge being faced by Argungu LGA



Now in your groups, define the problem to help Argungu LGA solve their problem

1 Example of a good problem statement

“How can the Argungu LGA reduce the patient wait-time, before immunisation, at all its health facilities to a maximum of 15 minutes by December of 2024”



- **Specific**
- **Measurable**
- **Action-oriented**
- **Relevant (to the key problem)**
- **Time-bound**

① Practice exercise: We already defined the problem completely to guide our process

Basic question to be resolved

“How can Argungu LGA reduce the patient wait-time, before immunisation, at all its health facilities to a maximum of 15 minutes by December of 2024?”

Initial situation

- Keeping clients for over 15 minutes before receiving immunization at health facilities
- Argungu LGA spent a lot of money in carrying out the campaign
- Health centers usually do not typically handle the number of patients they receive now

Decision makers

- KBSPHCDA ES
- SIO and PM SERICC
- LGA DPHC

Other stakeholders

- PHC patients
- PHC OIC
- RI service provider

Success criteria

- Less than 15 minutes patient wait-times before consultation experienced by all patients in PHCs in Argungu
- Greater than zero percentage change in demand for immunization services

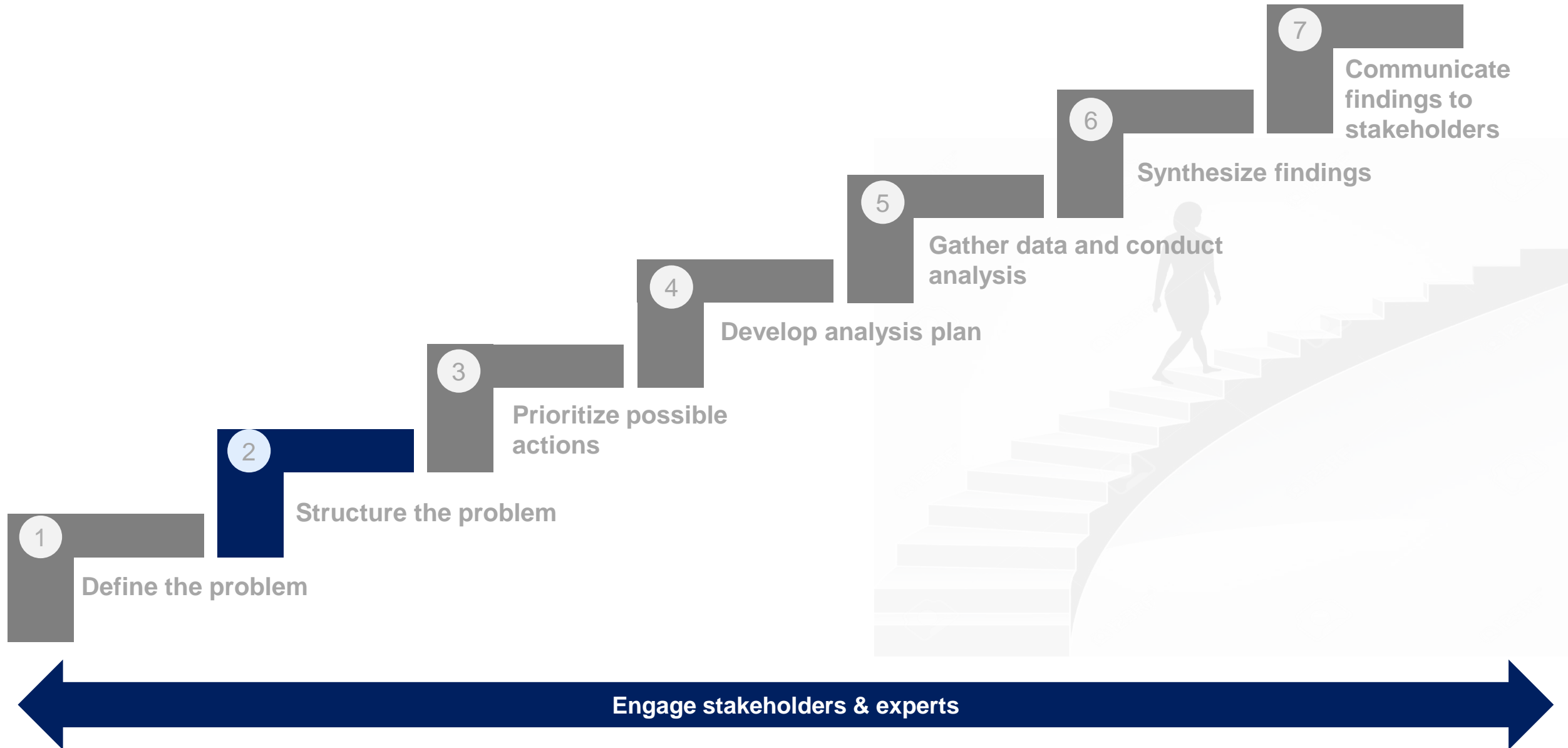
Constraints

- Funds: bureaucracy with fund release
- Limited staff capacity: health workers are currently working at maximum capacity, given their level of expertise

Project scope

- All PHCs in Argungu

The 7-step approach to problem solving



② Break down the problem into components using an issue tree

An issue tree is a graphical breakdown of the problem statement that dissects it into its different components. Issue trees are useful for disaggregating **large, complicated problems** into issues

Why use logic or issue trees?

To break a problem into component parts and set priorities

To build a common understanding within the team of the problem solving framework

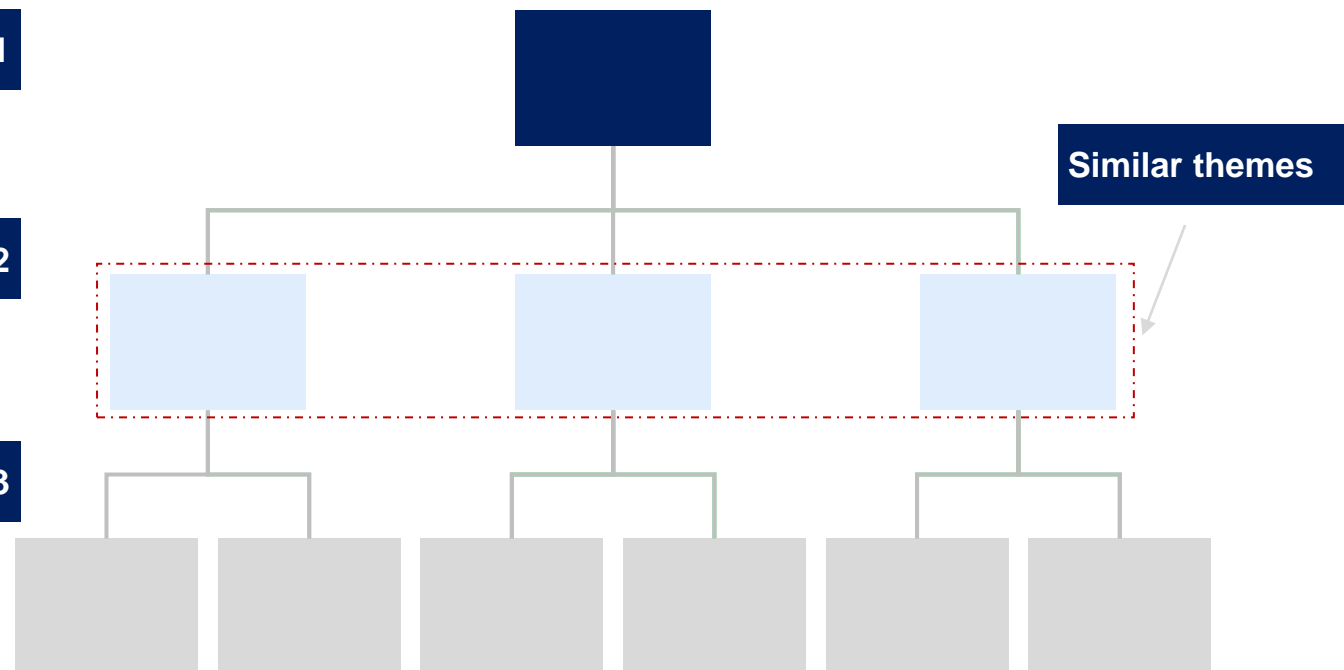
To help focus use of organizing frameworks and theories

Sample issue tree

Level 1

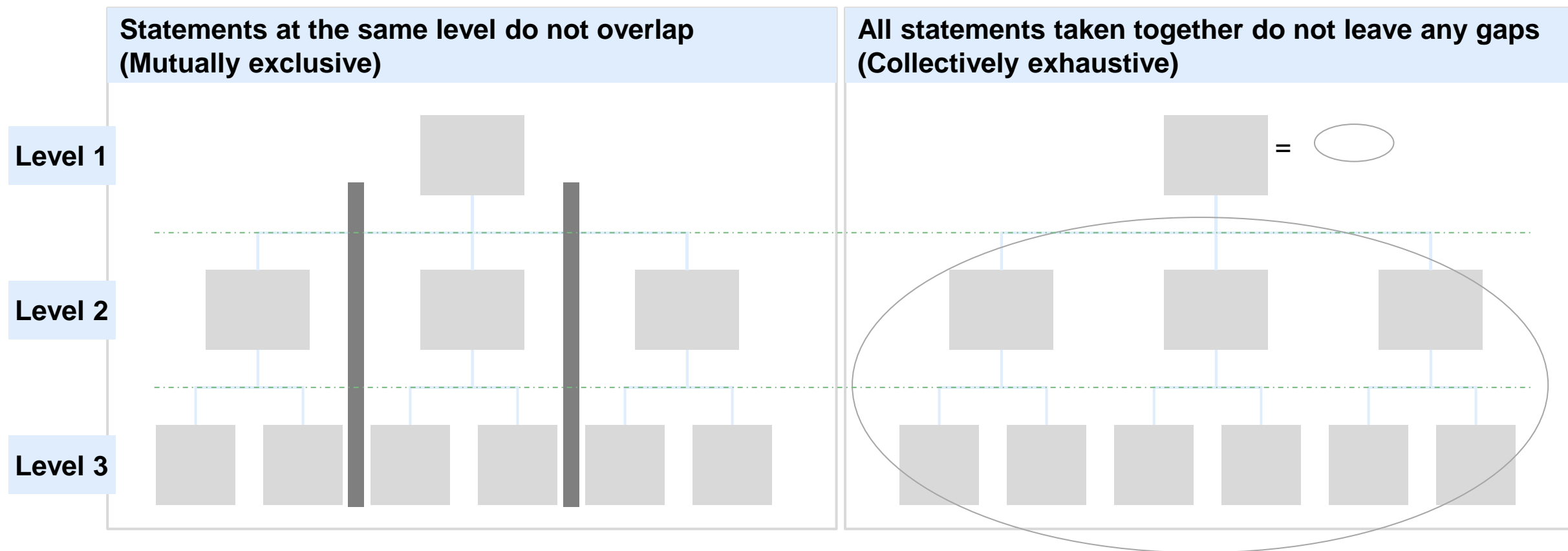
Level 2

Level 3



It is always useful for issues to be MECE¹, see next slide for more explanation

② Obey the following rules when breaking down problems into issue/logic trees



- Disaggregated issues on the tree must be actionable and relevant to the problem
- All statements at the same level taken together do not leave any gaps

Introduction to example case: Hassan's money problems

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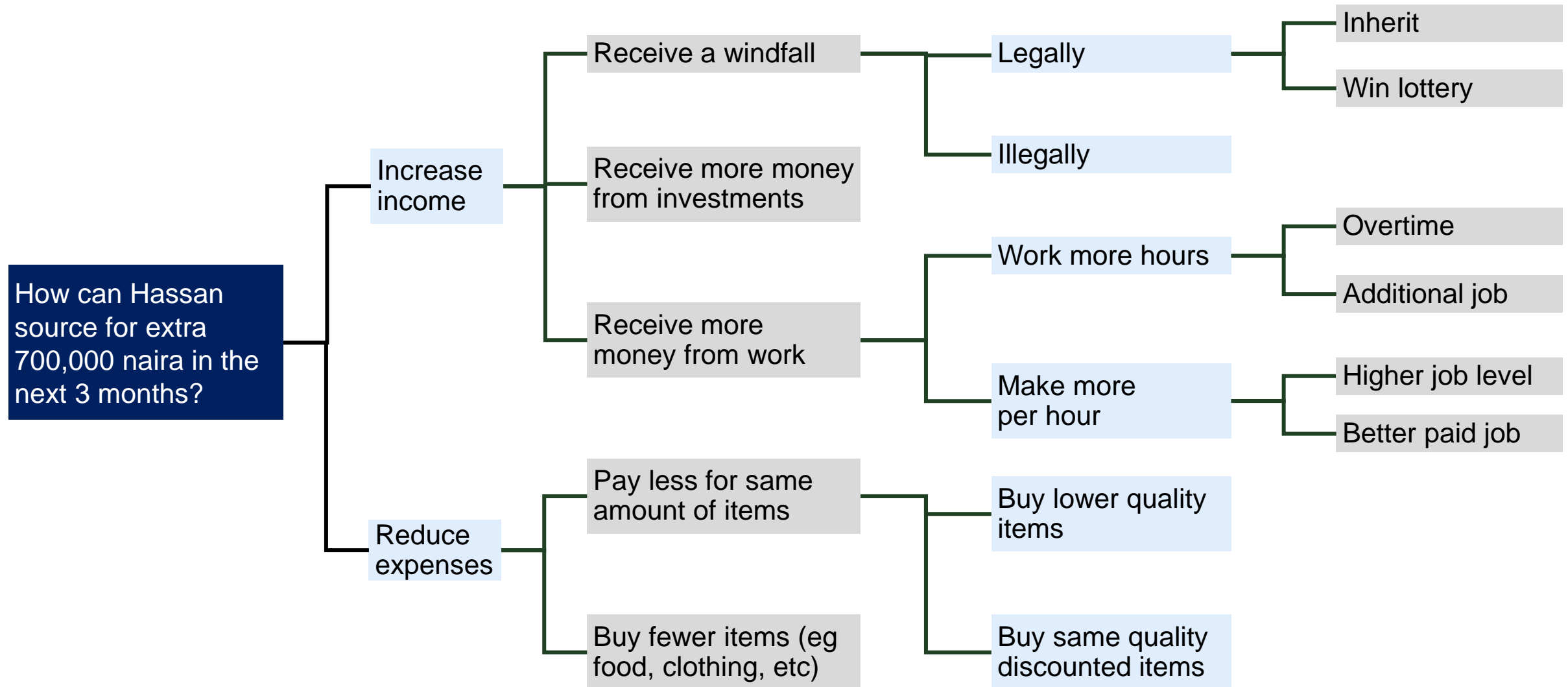
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We will now help Hassan to structure his problem in a bid to solve it

② Example: Let us break down Hassan's problem into components using an issue tree



Introduction to problem case: Argungu Overcrowding's Dilemma

The KBSPHCDA has spent 50,000,000 naira on publicity campaign to achieve the EPI's 2021-2025 strategic plan. The campaign led to a massive influx of the residents to health facilities around them.

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As a staff within the KBSPHCDA, your director has asked you to help solve the challenge being faced by Argungu LGA



Now in your groups, structure the problem being faced by Argungu LGA

① Practice exercise: We already defined the problem completely to guide our process

Basic question to be resolved

“How can Argungu LGA reduce the patient wait-time, before immunisation, at all its health facilities to a maximum of 15 minutes by December of 2024?”

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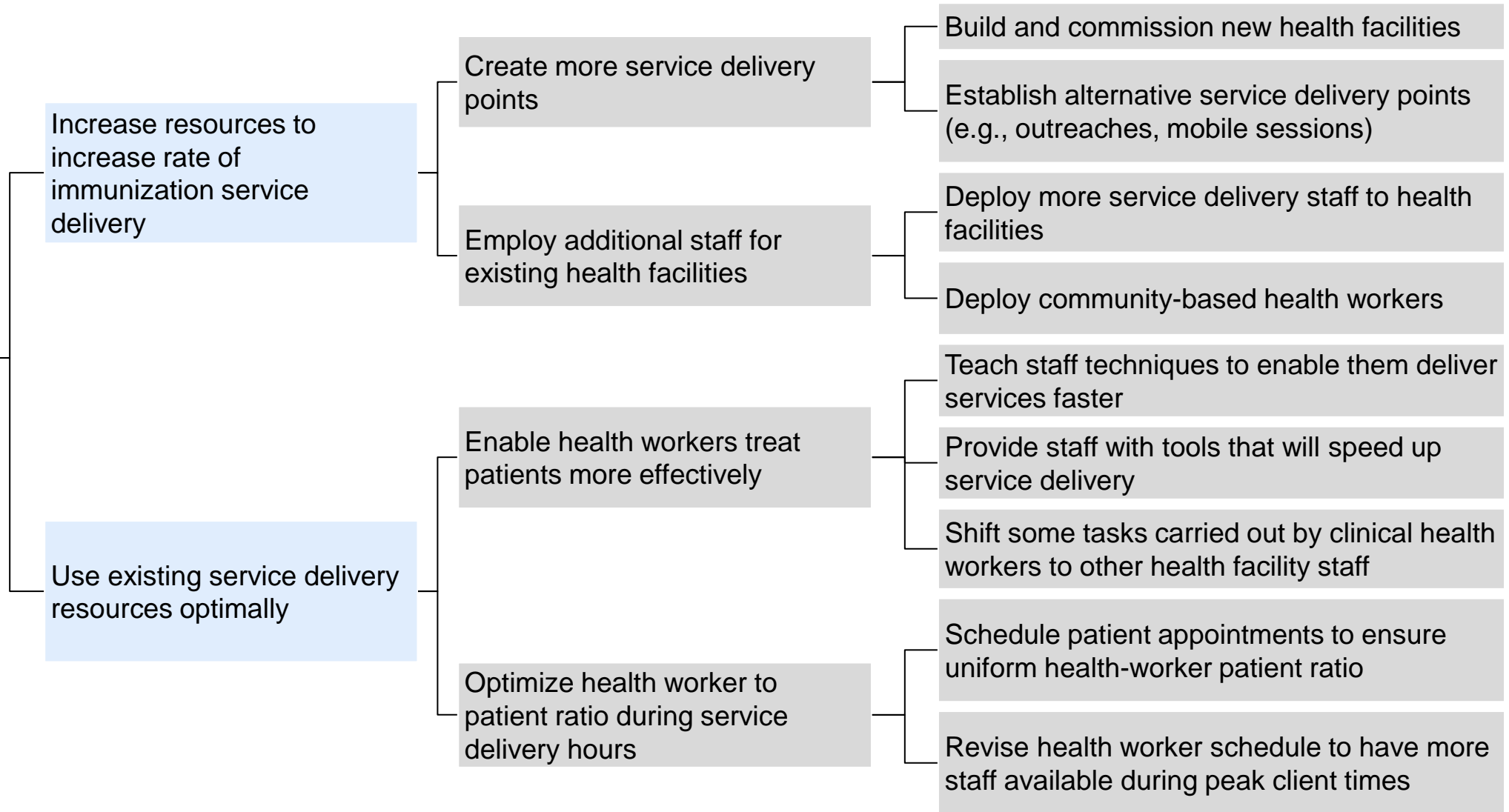
Project scope

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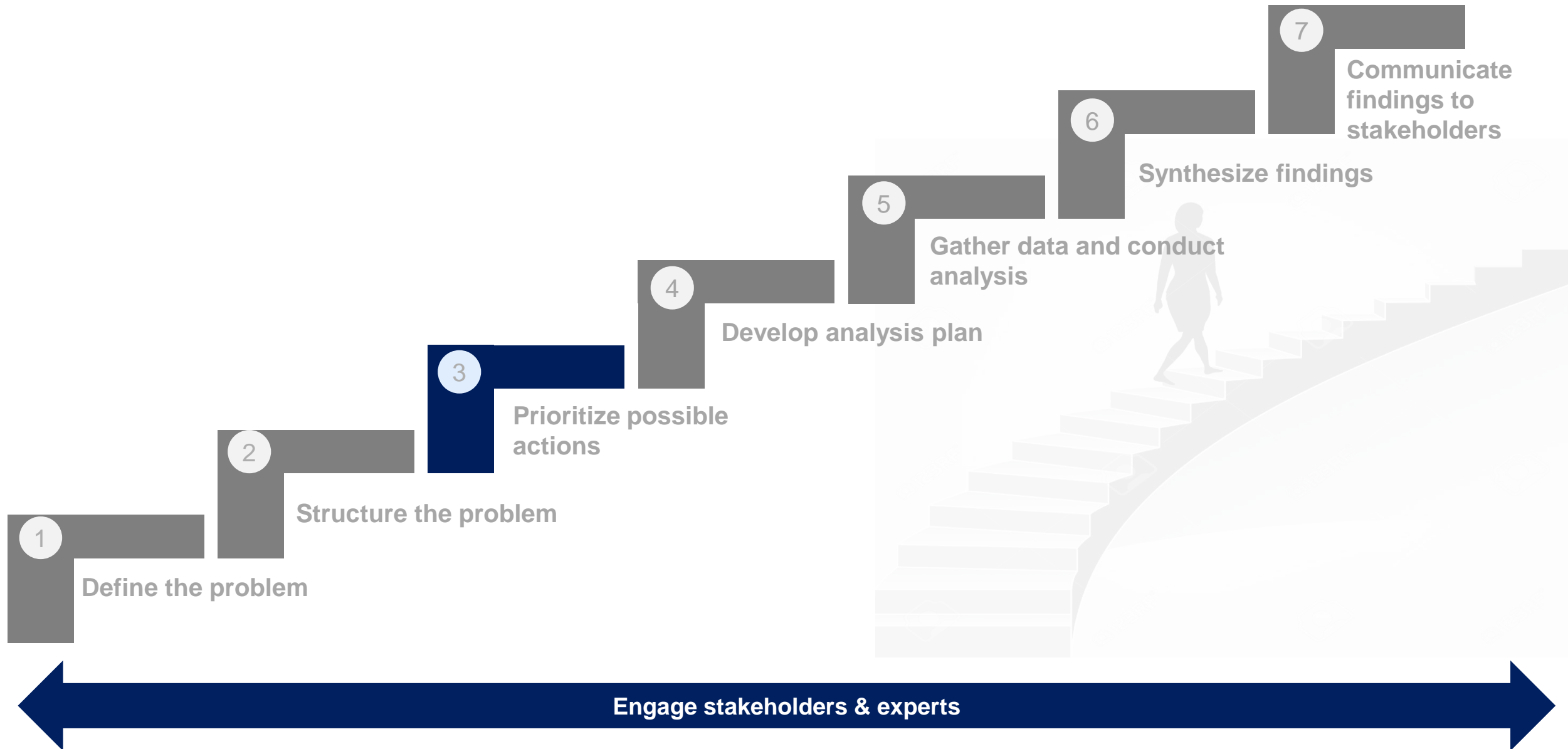
② Practice exercise: Let us develop an issue tree to answer Argungu’s overcrowding problem

NOT EXHAUSTIVE

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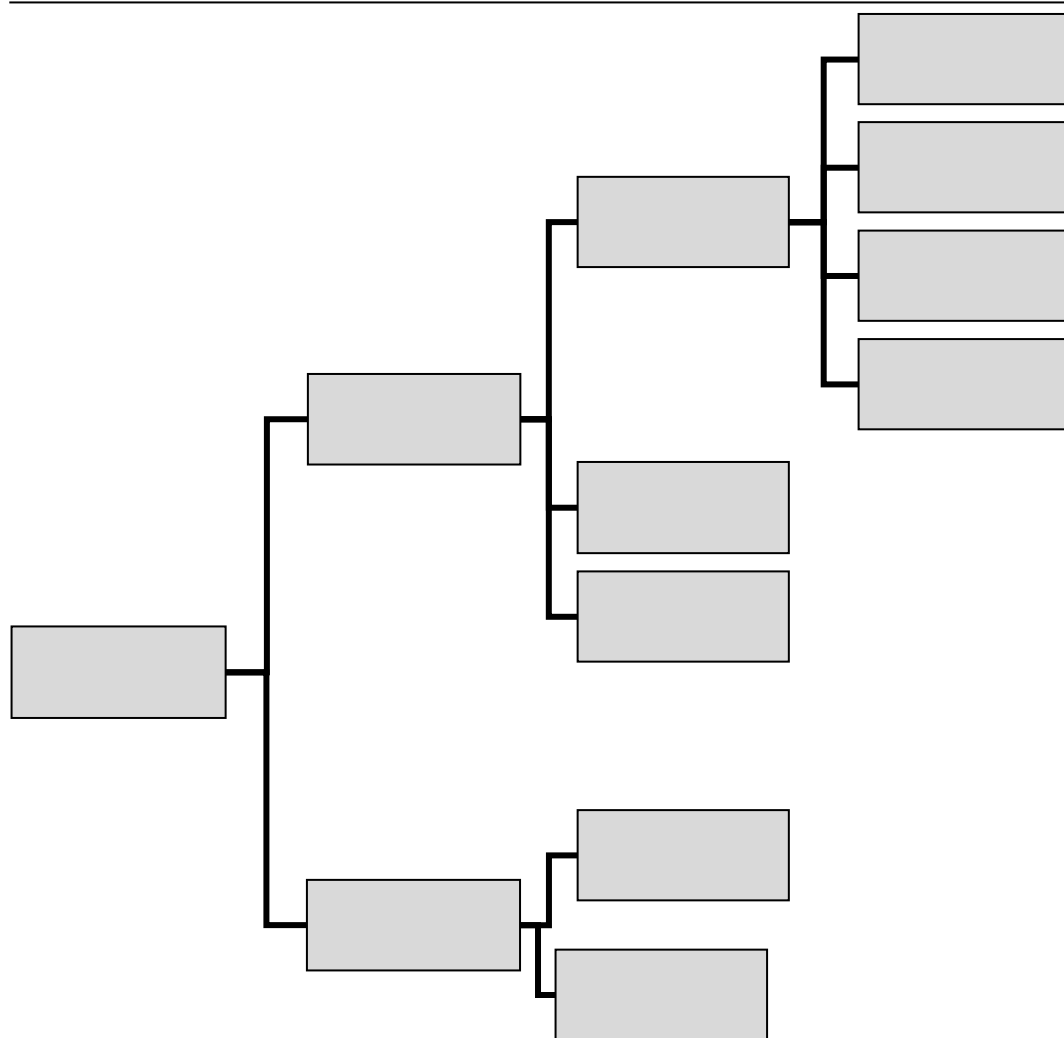


The 7-step approach to problem solving



③ Prioritization is important because time and other resources are often constrained

Bundle of possible actions developed



But:

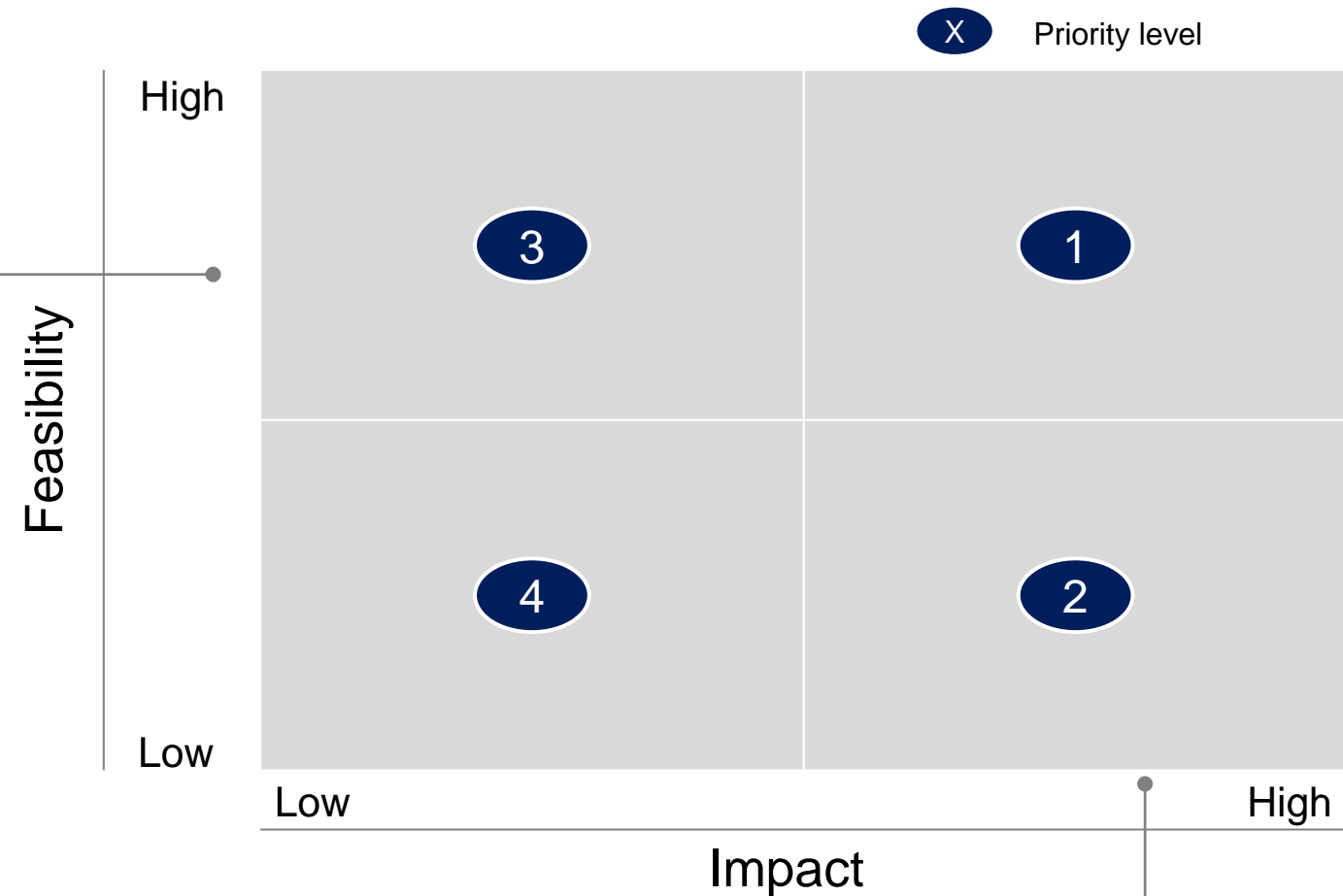
- Limited resources
- Time constraints

Prioritisation required

③ The impact-feasibility matrix is an effective framework for action prioritization

Questions to consider in assessing **FEASIBILITY**

- How difficult is it to execute?
- How much of a departure is it from the current state?
- How does it complement our actual capabilities?
- How resource/time-intensive will implementation be?
- How different is this from something attempted in the past?



Other criteria like likelihood, urgency and strategic alignment can also be used

Questions to consider in assessing **IMPACT**

- How long will it take for results to emerge?
- How lasting will the results be?
- How large is the risk of failure?

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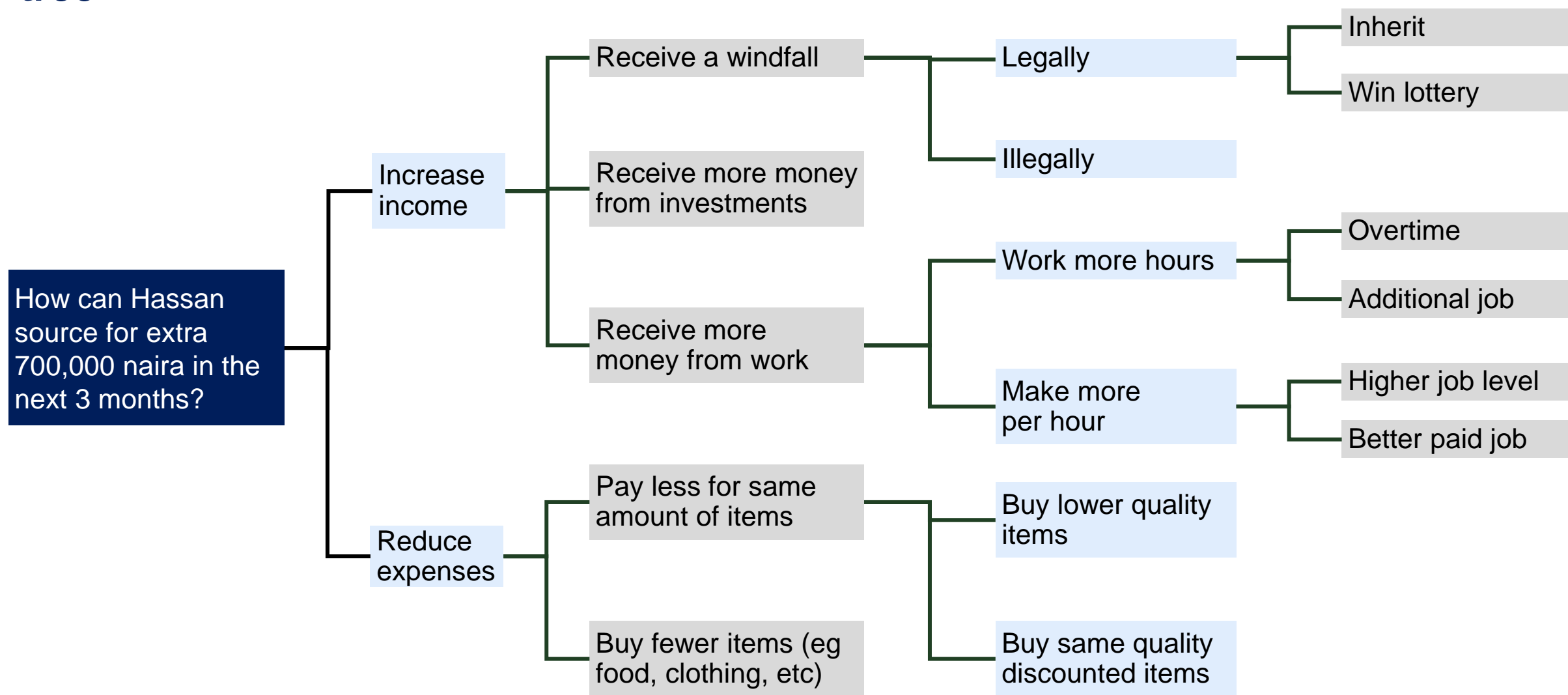
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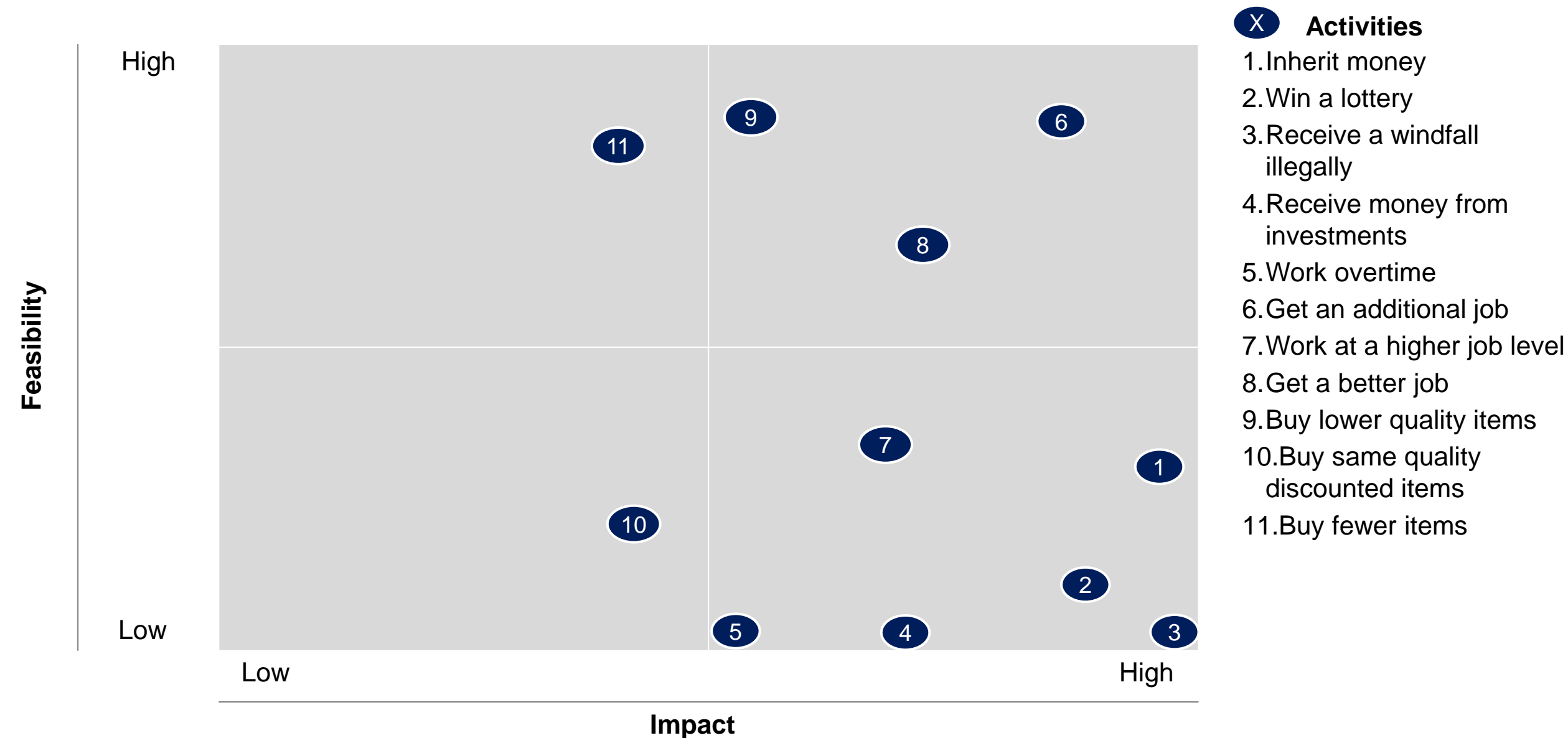


We will now help Hassan to structure his problem in a bid to solve it

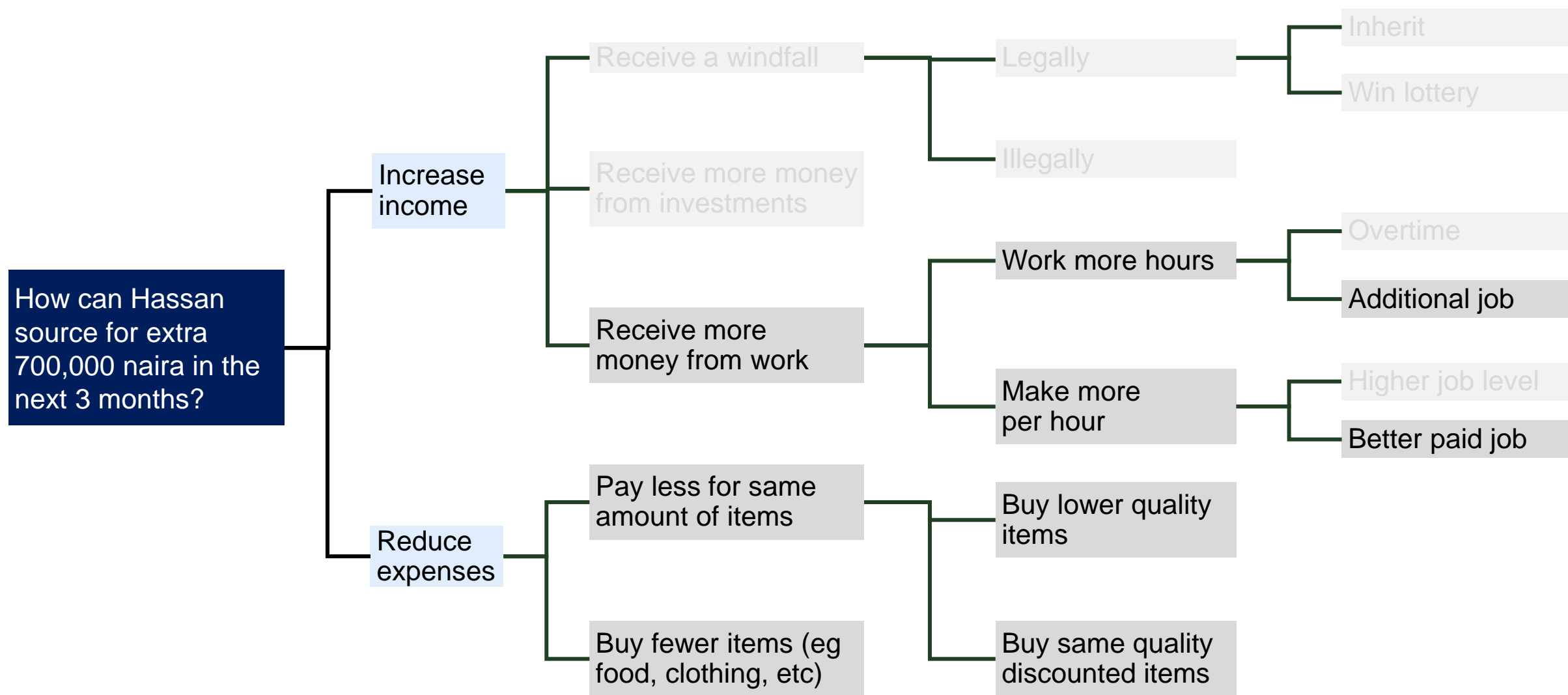
③ Example: Let us break down Hassan’s problem into components using an issue tree



Example: We can prioritize the activities as shown



③ Example: Our issue tree then reduces to the highest priority activities



Introduction to problem case: Argungu Overcrowding's Dilemma

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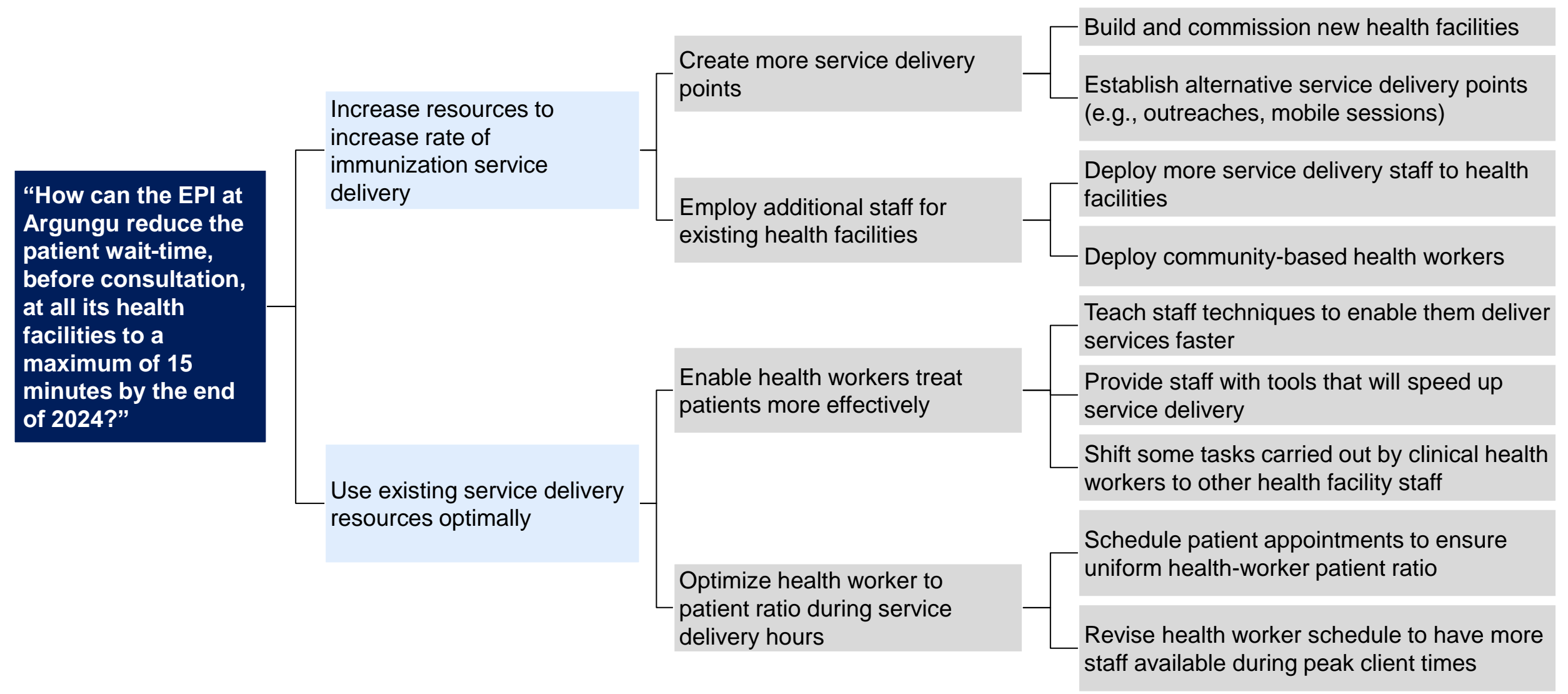
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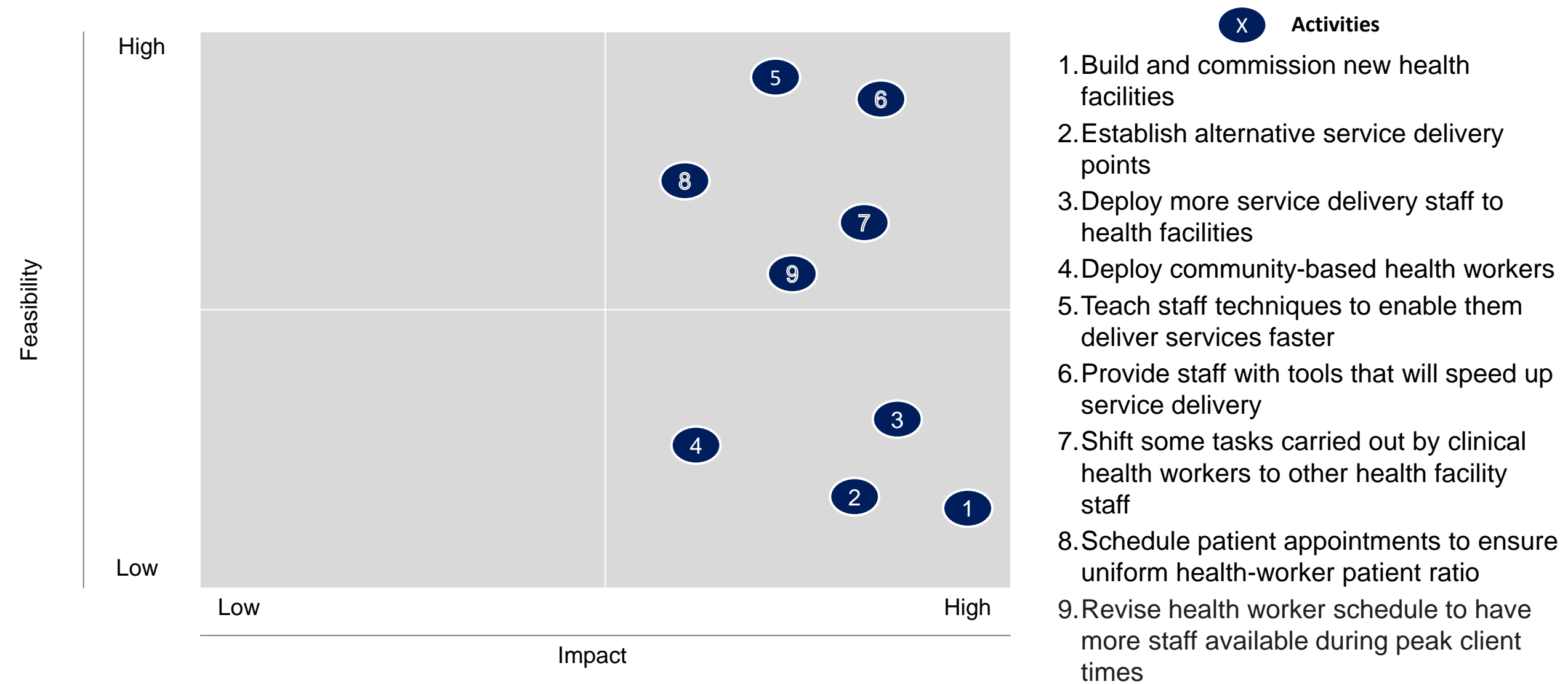
Now in your groups, attempt to prioritize the problem being faced by Argungu LGA

Practice exercise: We can prioritize our existing issue tree for the overcrowding problem at Argungu

NOT EXHAUSTIVE



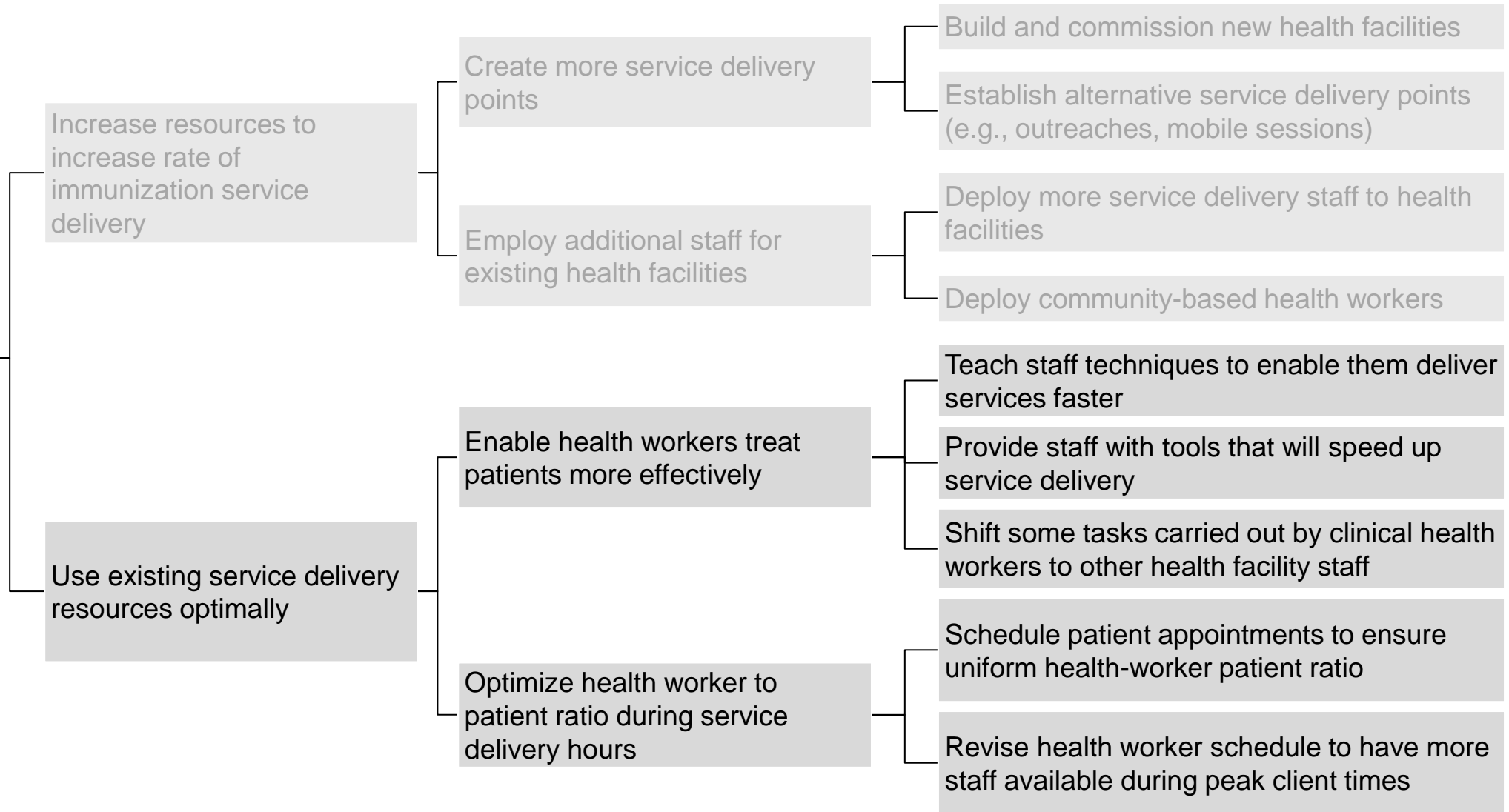
Practice exercise: Let us prioritize the possible actions identified on the issue tree using the feasibility-impact matrix



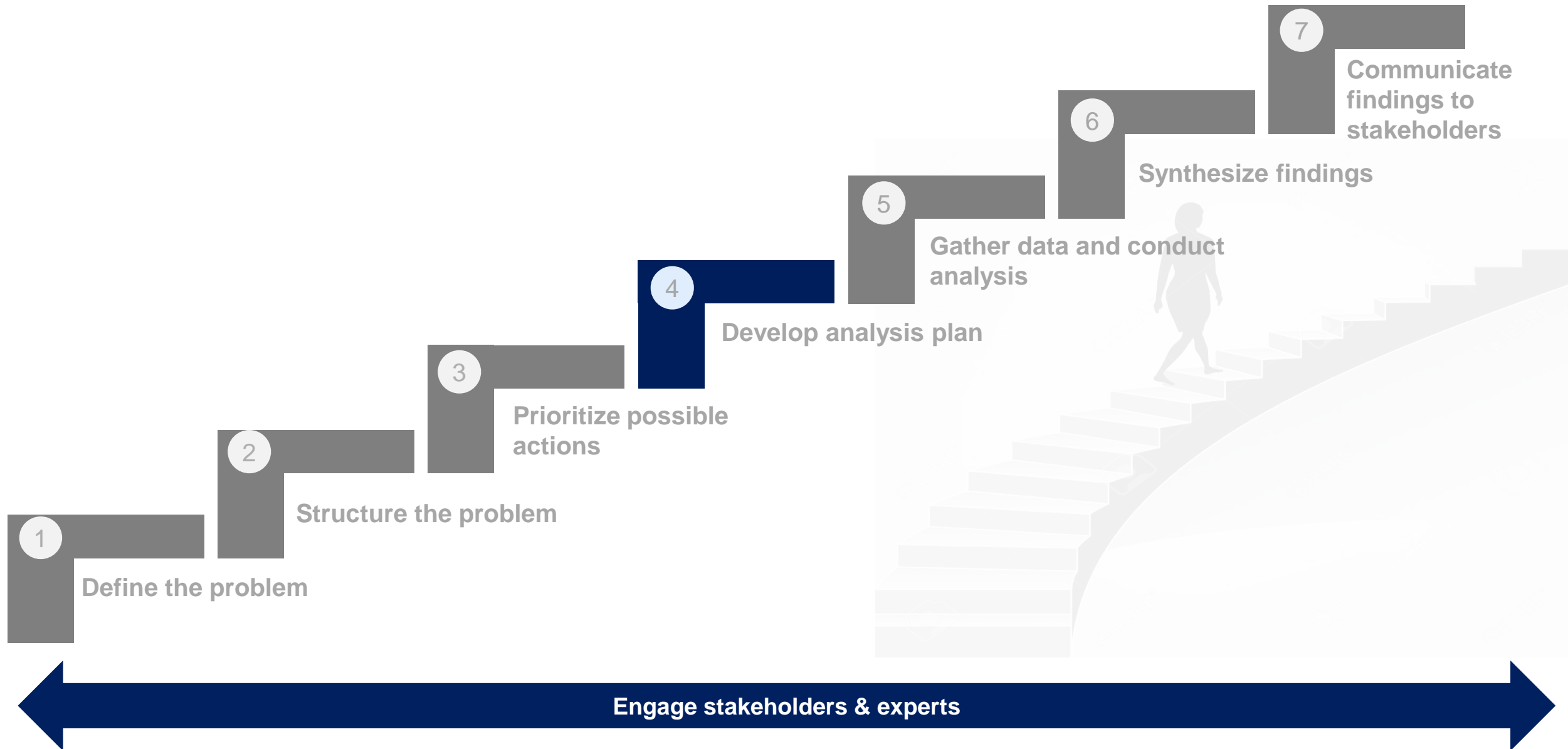
Practice exercise: Our issue tree then reduces to the highest priority activities

NOT EXHAUSTIVE

“How can Argungu LGA reduce the patient wait-time, before immunisation, at all its health facilities to a maximum of 15 minutes by December of 2024?”



The 7-step approach to problem solving



4 Now that we have prioritized our activities, it is time to develop a work plan

In developing an analysis plan, ask yourself the following questions

- ✓ What is the key issue to be resolved
- ✓ What is the likely resolution to the issue
- ✓ What analyses should be explored to lead to or derail the resolution
- ✓ What are the likely sources of required data



The issue analysis worksheet can be used in developing an analysis plan

4 An issue analysis worksheet can be used to decide what analysis to be carried out in executing assigned activities

Introduction

The issue analysis worksheet defines what the issue is, proposes an hypothesis and necessary analysis that should be done alongside the appropriate information source/needs

Issue analysis worksheet

Issue

Key issue or problem that needs to be resolved



Hypothesis (or end product)

Statement of the likely resolution to the issue



Analysis to prove hypothesis

Models that should be explored in order to confirm or refute the hypothesis



Information sources/needs

Likely means of obtaining the data required to carry out the analysis



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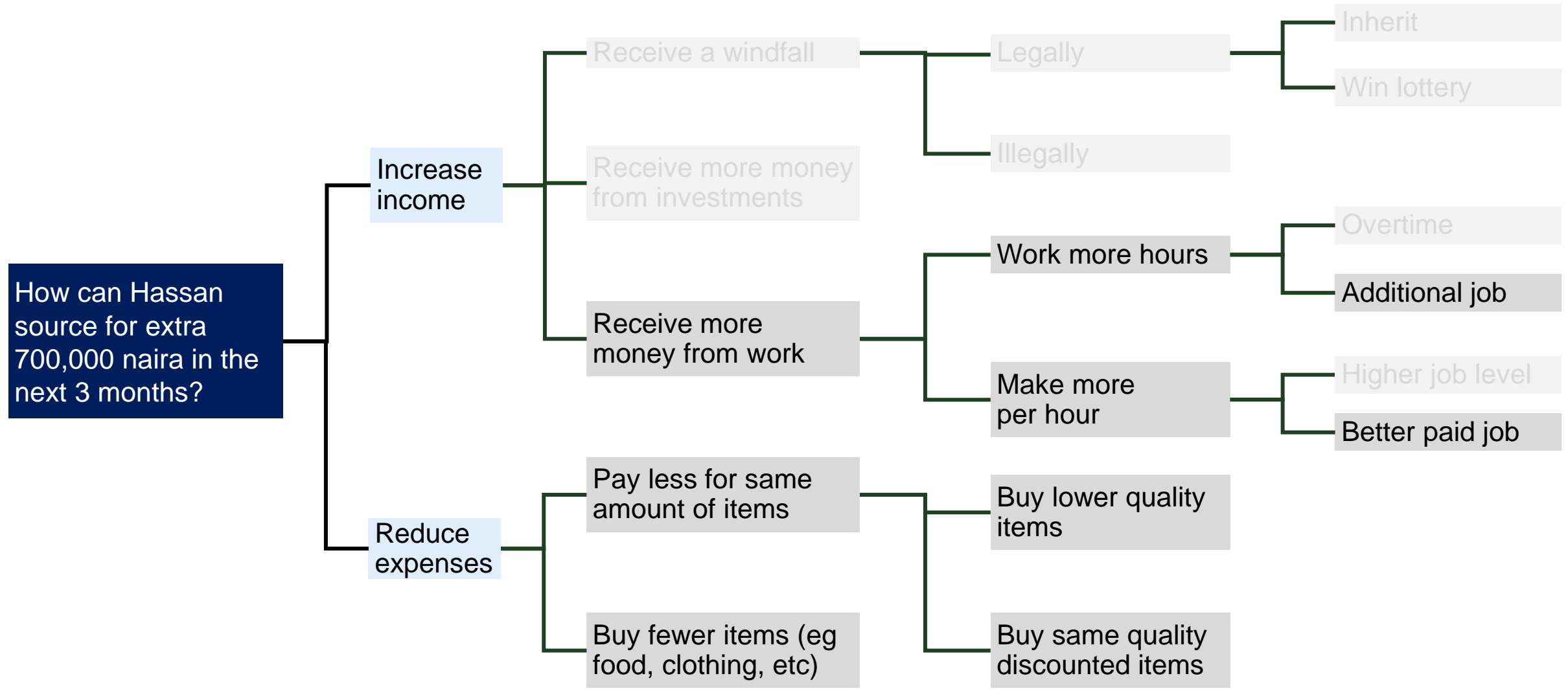
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We will now help Hassan develop an analysis

Remember Hassan's issue tree after we prioritized the activities



4 Let us design an analysis using a branch of Hassan's issue tree

ILLUSTRATION

Issue

Hassan needs to pay less for the same amount of items



Hypothesis (or end product)

- He should buy lower quality items
- He should buy same quality items at discounted prices



Analysis to prove hypothesis

- Comparison of the amount saved from buying lower quality items versus amount saved from buying same quality items at discounted prices



Information sources/ needs

- Coupons and other points of access to discounts



This can be done on an excel worksheet to keep everything in one easily accessible format

Introduction to problem case: Argungu Overcrowding's Dilemma

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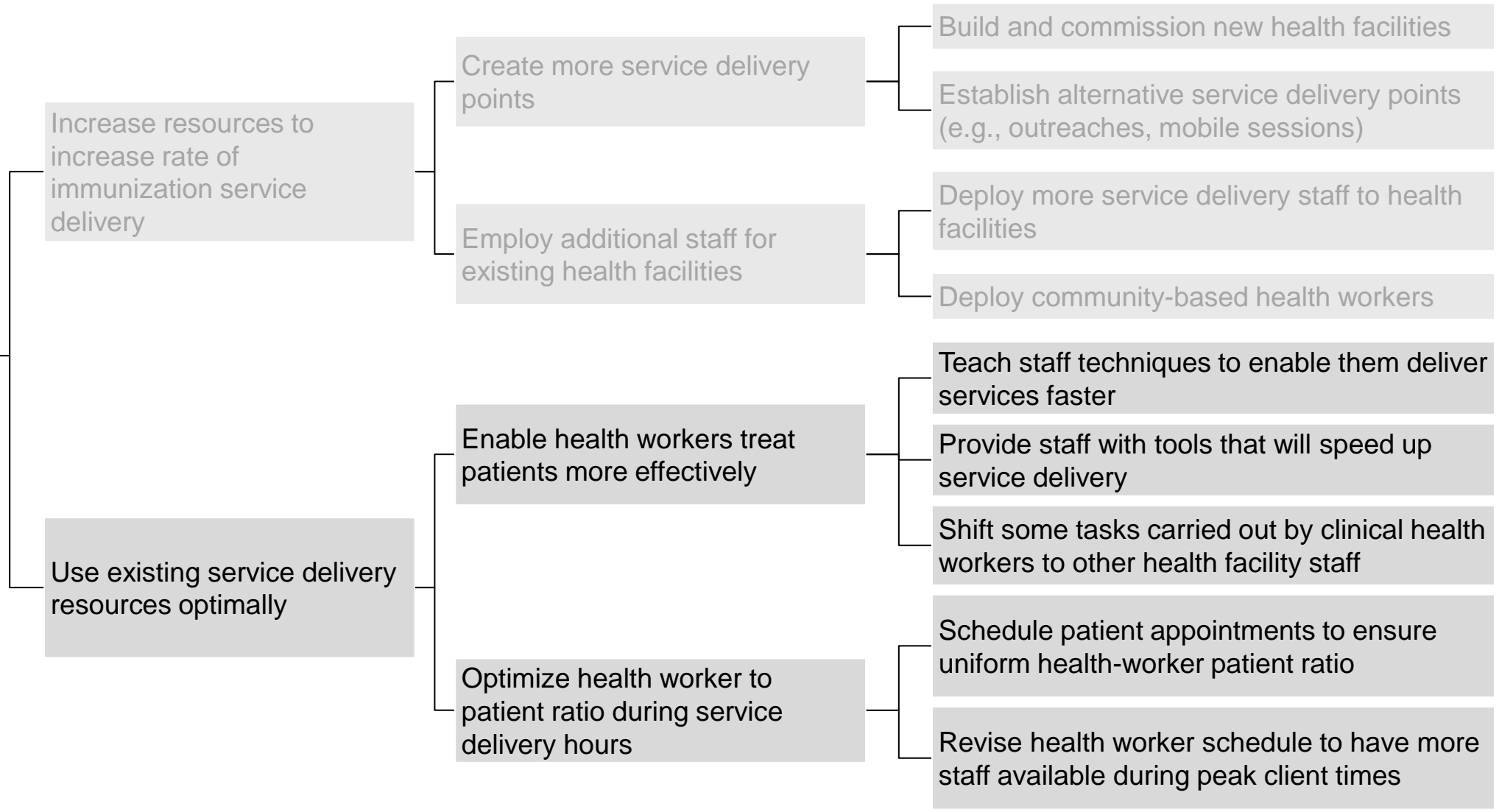


Now in groups, let us design an analysis for the problem being faced by Argungu

Remember Argungu’s issue tree after we prioritized the activities

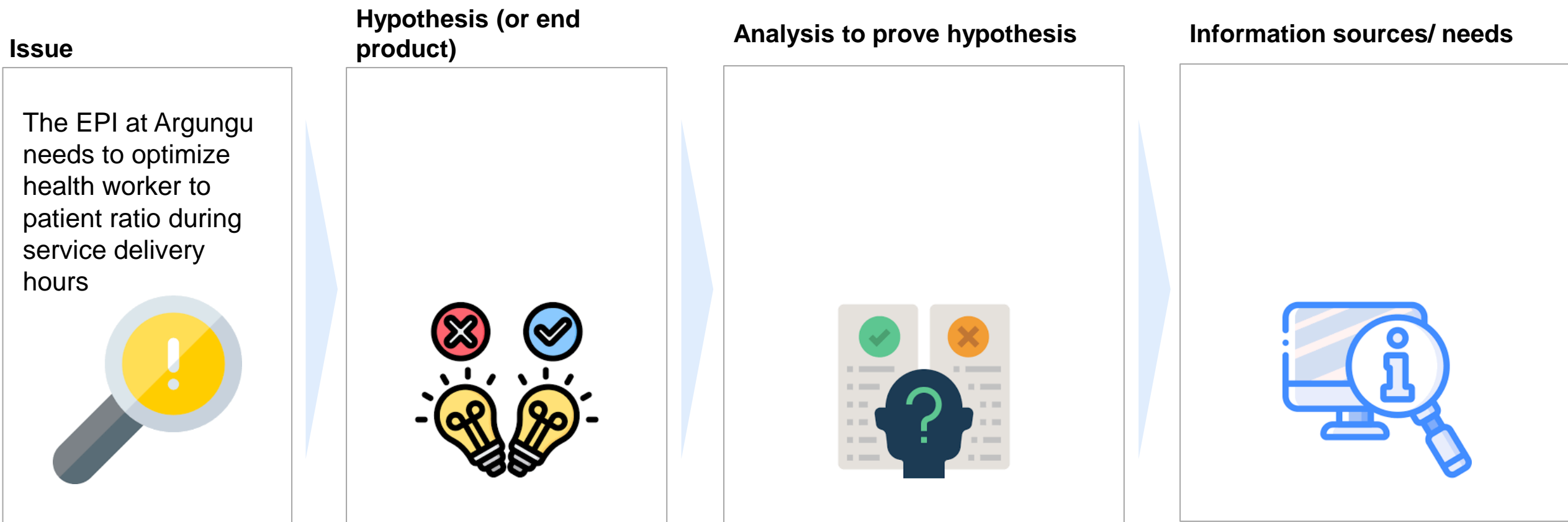
NOT EXHAUSTIVE

“How can Argungu LGA reduce the patient wait-time, before immunisation, at all its health facilities to a maximum of 15 minutes by December of 2024?”



Practice exercise: Let us design an analysis plan using our Argungu exercise

- Take the plan to optimize health worker to patient ratio during service delivery hours
- Determine which analyses you should do to develop a recommendation
- Conduct the analyses and compile your results



Practice exercise: Let us design an analysis plan using our Argungu overcrowding problem

ILLUSTRATION

Issue

- Argungu needs to optimize health worker to patient ratio during service delivery hours to reduce patient wait time



Hypothesis (or end product)

- Spread out patient inflow by scheduling appointments throughout all operating hours
- Revise health worker schedule to have more staff available during peak client times



Analysis to prove hypothesis

- Current health worker schedule and current patient inflow rate
- Effect of rescheduling health worker working hours on service delivery rate
- Effect of distributing patient appointment time across the operational hours of the day on service delivery rate

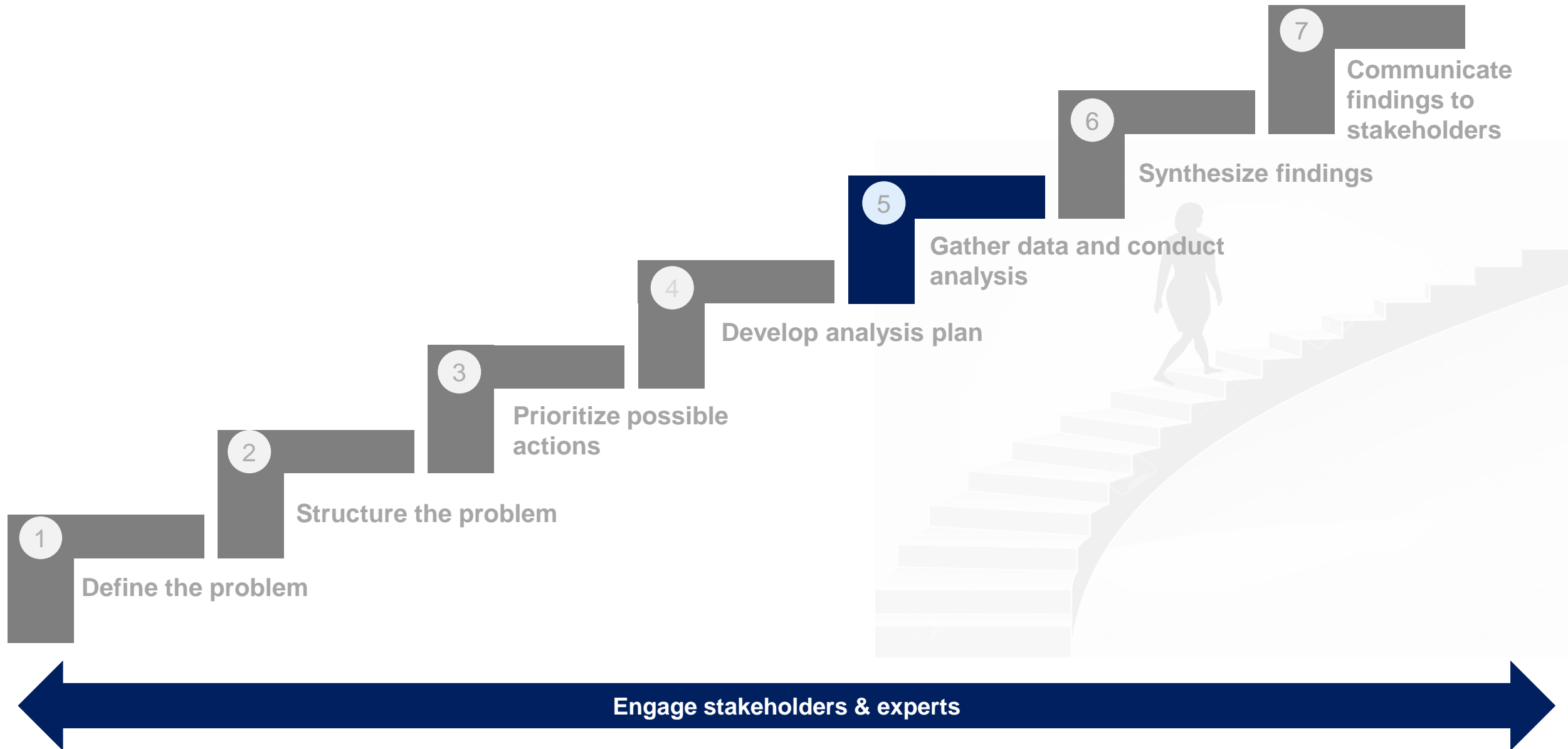


Information sources/ needs

- Hospital records of patient's visit to determine the peak client times
- Hospital staff schedule to determine current staff distribution across the operational hours of the day



The 7-step approach to problem solving



5 Obtain the information required and critically evaluate the possible actions listed

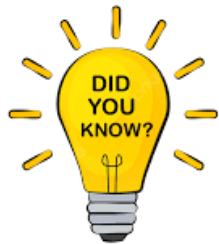


Now that we have designed our analysis plan

It is time to gather data and analyze them



- Analysis gives insight or a clear picture into the issues to be solved
- Think “**evidence**” – what am I trying to prove or disprove



Without data, you are just another person with an opinion

- *W Edward Deming*

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ILLUSTRATION

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- Coupons and other points of access to discounts



This can be done on an excel worksheet to keep everything in one easily accessible format

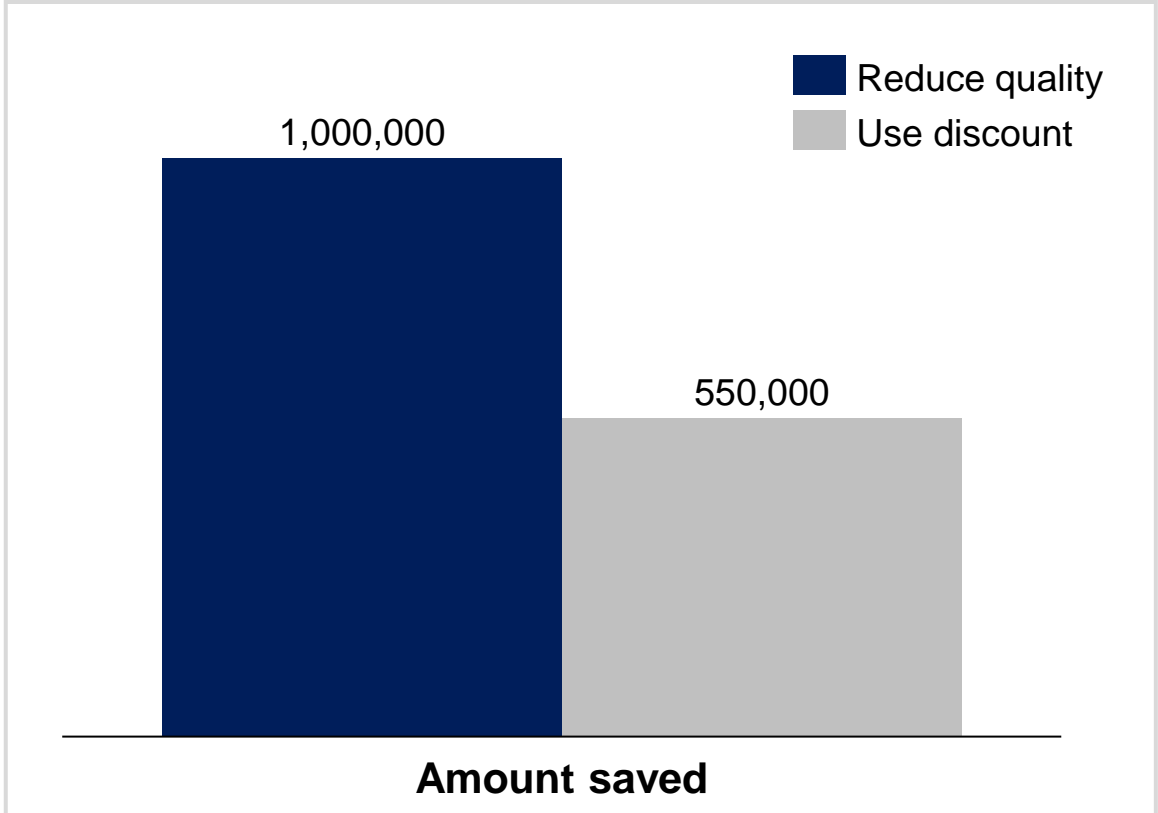
Collate data and present it in the simplest and most appropriate way

ILLUSTRATION

Assumptions

- Hassan can purchase lower quality items for the next 3 months which will save him 250,000 naira per month for clothing, food and utilities
- He can also exercise at a lower quality club and save an annual membership fee of 250,000 naira. The new subscription will take effect in three months' time
- He can get discounted prices on select items for each month, saving 200,000 naira for the first month, 150,000 naira for the second month and 200,000 naira for the third month
- Hassan cannot get discounted prices for his polo club membership as the rates are standard

Total amount saved (naira)



Other charts that can be used to present data include: pie, column, line among others

Introduction to problem case: Argungu Overcrowding's Dilemma

The KBSPHCDA has spent 50,000,000 naira on publicity campaign to achieve the EPI's 2021-2025 strategic plan. The campaign led to a massive influx of the residents to health facilities around them.

As a result of the influx of clients, immunization indicator numbers have drastically improved. However, this influx also caused the clients at the health facilities to wait for long period – over 45 minutes, before they can meet the service provider for immunization.

From previous assessment, the LGA understands keeping clients for over 15 minutes before consulting with the service provider, inhibited majority of the population from using the health facilities.

To avoid losing its recent gains, the LGA immunization officer has requested technical assistance from the KBSPHCDA, in solving the long patient wait-time in its health facilities.

As a staff within the KBSPHCDA, your director has asked you to help solve the challenge being faced by Argungu LGA



Now in groups, let us design an analysis for the problem being faced in Argungu

Remember we developed an analysis plan using our overcrowding problem at Argungu

ILLUSTRATION

Issue

- Argungu needs to optimize health worker to patient ratio during service delivery hours to reduce patient wait time



Hypothesis (or end product)

- Spread out patient inflow by scheduling appointments throughout all operating hours
- Revise health worker schedule to have more staff available during peak client times



Analysis to prove hypothesis

- Current health worker schedule and current patient inflow rate
- Effect of rescheduling health worker working hours on service delivery rate
- Effect of distributing patient appointment time across the operational hours of the day on service delivery rate



Information sources/ needs

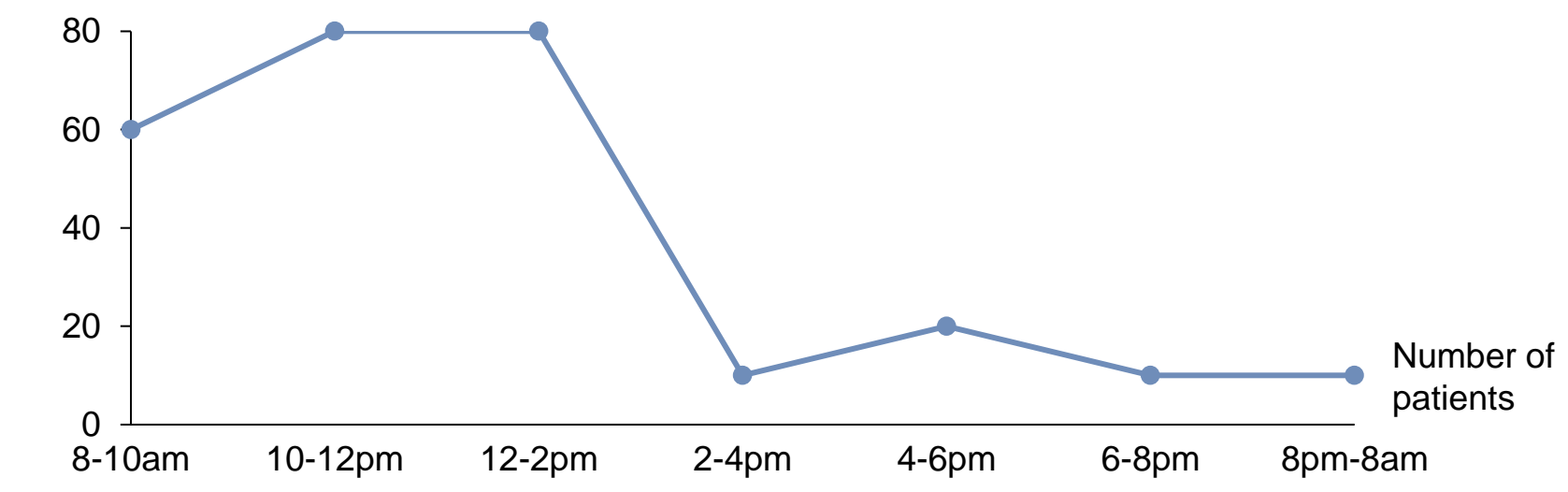
- Hospital records of patient's visit to determine the peak client times
- Hospital staff schedule to determine current staff distribution across the operational hours of the day



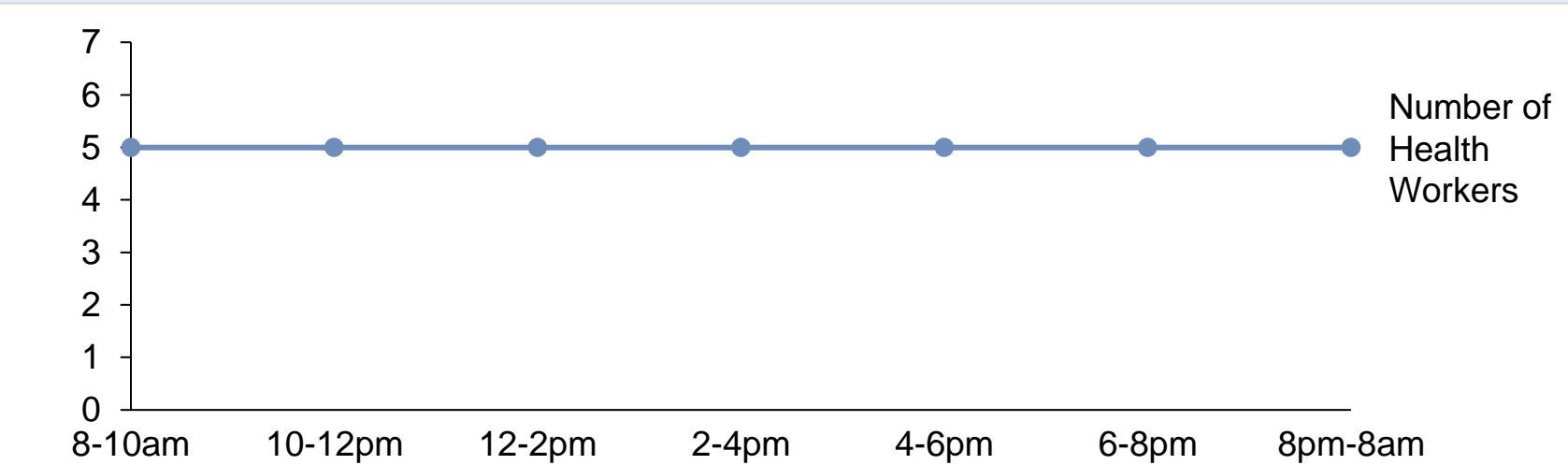
Collate data and present it in the simplest and most appropriate way

ILLUSTRATION

Average number of clients (units) visiting the health facility at different time intervals



Number of health workers (units) available during the different shifts

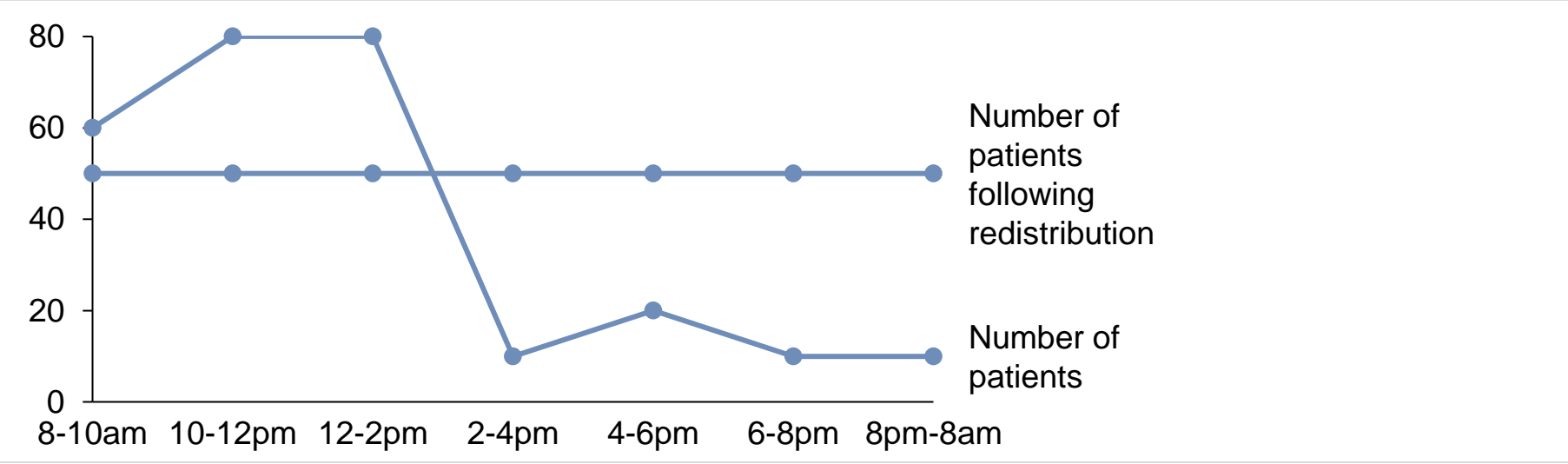


- Assumptions**
- There are 15 health workers available at the health facility distributed evenly across the morning (8am-2pm), afternoon (2pm-8pm) and night (8pm -8am) shift, that is, 5 health workers will work every shift
 - Five health workers will be required to attend to 40 patients every two hours
 - The number of clients that visit the health facility after 8pm (during the night shift) are very few and close to insignificant

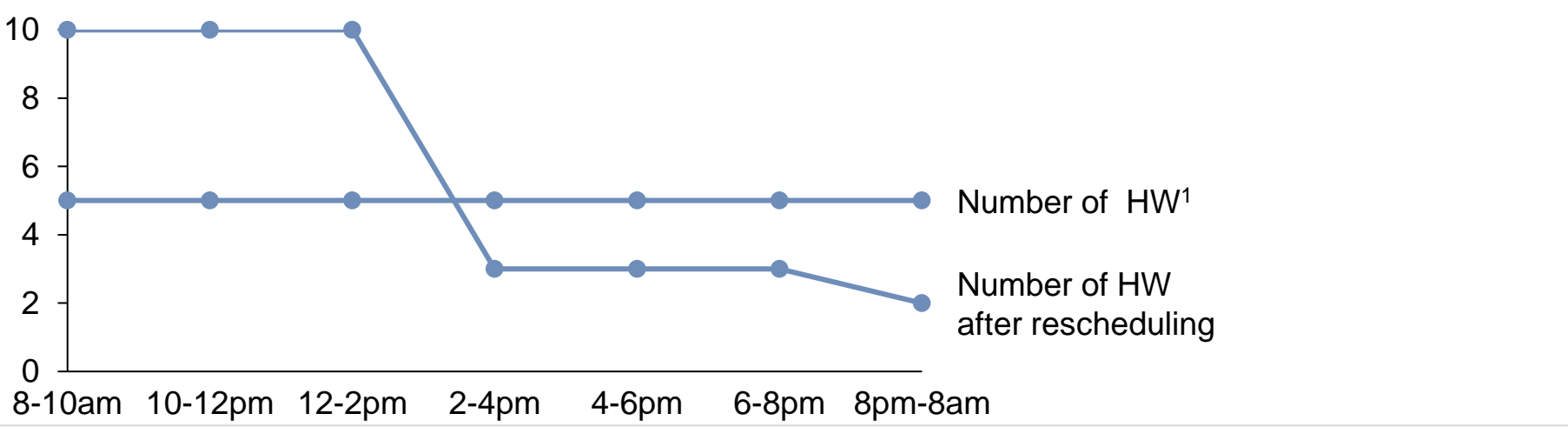
Collate data and present it in the simplest and most appropriate way

ILLUSTRATION

Rescheduling client appointment keeping HW schedule constant



Rescheduling HW hours keeping client inflow constant



Findings

- An average of 270 patients will visit the hospital during the day shift (8am-8pm)
- Attempt to evenly distribute patient appointment will result in 45 patients visiting the health facility every 2 hours which exceeds the maximum number the available HW can cover
- Rescheduling HW hours such that 10, 3 and 2 HW work morning, afternoon and night shifts respectively will lead to optimal coverage of all patients by the health workers throughout the day

1: Health Workers

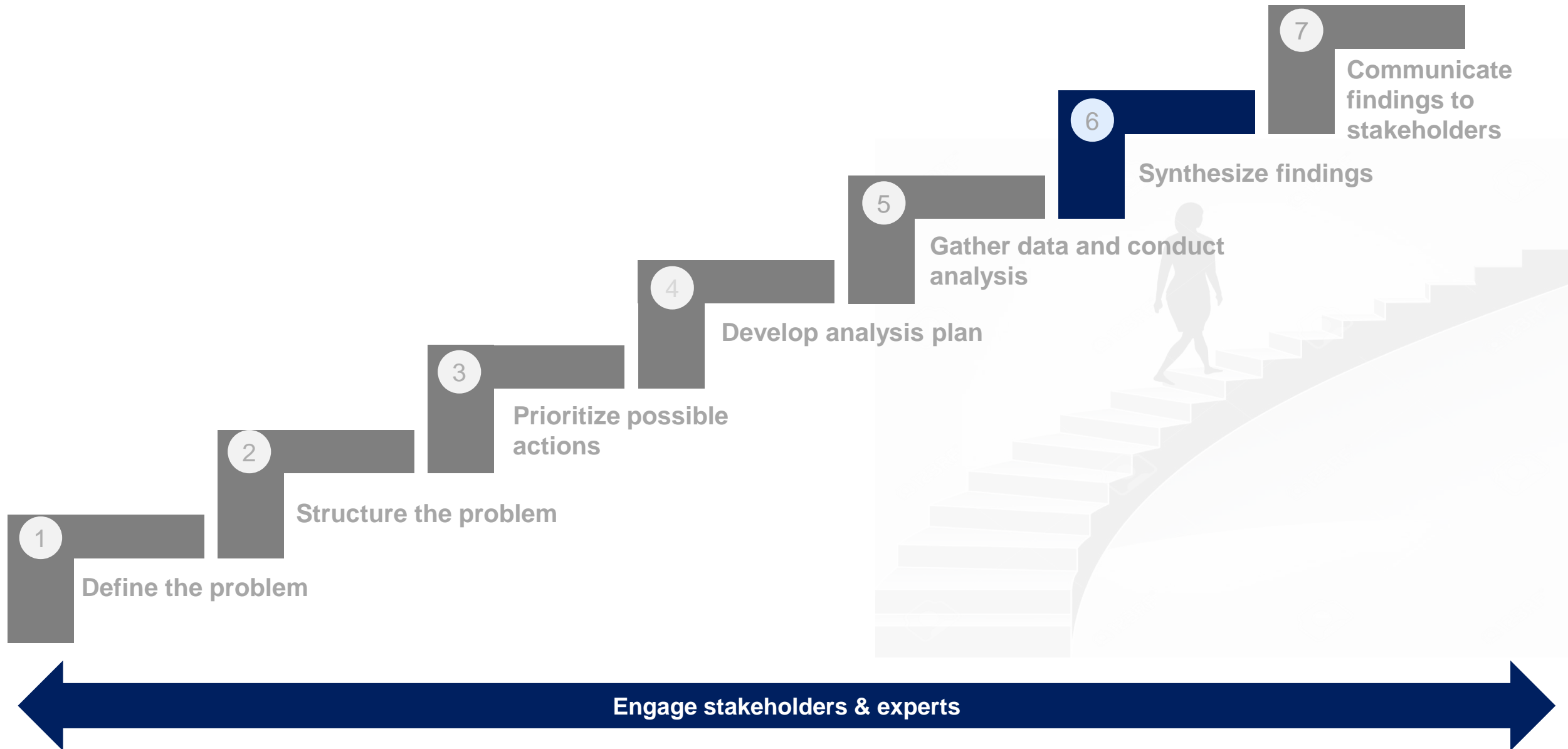
Tips for conducting analysis



Quick Tips!

- Use the analysis plan to focus the search
- Search the web and other public sources for essential facts
- Identify and interview experts to uncover hard-to-find facts
- Conduct primary research only if unavoidable
- Be hypothesis-driven, and end-products oriented, don't just "run the numbers" – ask "what question am I trying to answer?"
- Keep the analyses as simple as you can
- Do order of magnitude estimates before you start detailed analyses. Think big picture
- Be flexible in the face of new data, remember your hypothesis is there to disprove or prove it

The 7-step approach to problem solving



The So-What of the analysis that transforms facts and findings into strong recommendations

Throughout the analysis stage, you should ask yourself “so what?”

So what does this mean?

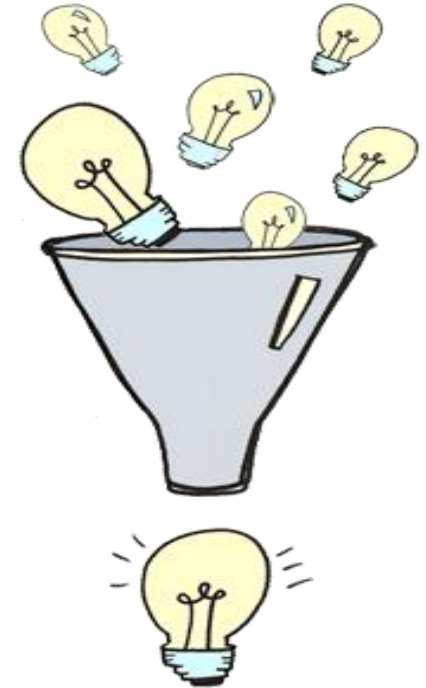
So what does this mean for the client?

So what does the client do about this?



Answering these questions will lead you to useful and practical recommendations

Facts, observations, findings, insights



A clear, powerful concise and actionable synthesis

Do not confuse synthesis for summary

Description

Summary

A comprehensive and usually brief abstract or recap of previously stated facts or statements

Synthesis

Implications of the facts – the “so what?”

Hassan's example

Hassan is in debt and he either has to purchase lower quality items or purchase the same quality items at discounted prices. Facts show that Hassan will make more money faster if he buys lower quality items as he will not make enough money during the three-month period to pay his debts

Hassan needs to purchase lower quality items and reduce his workout club membership

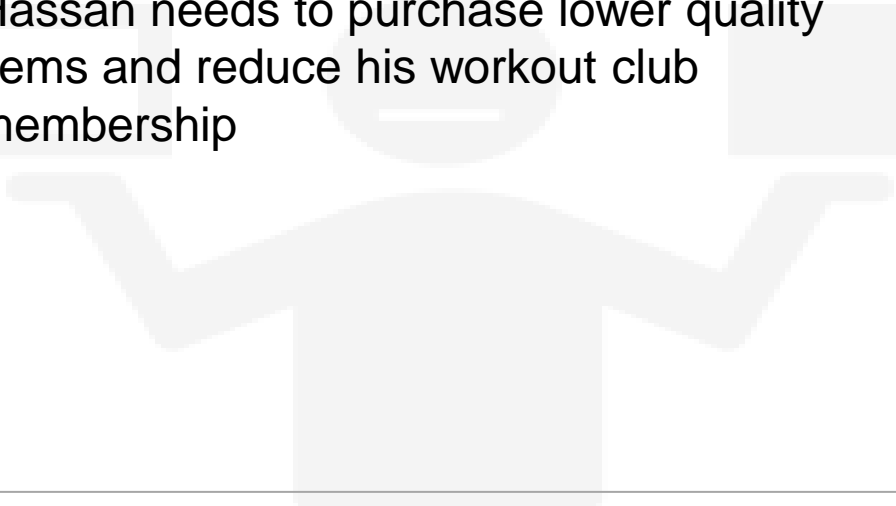
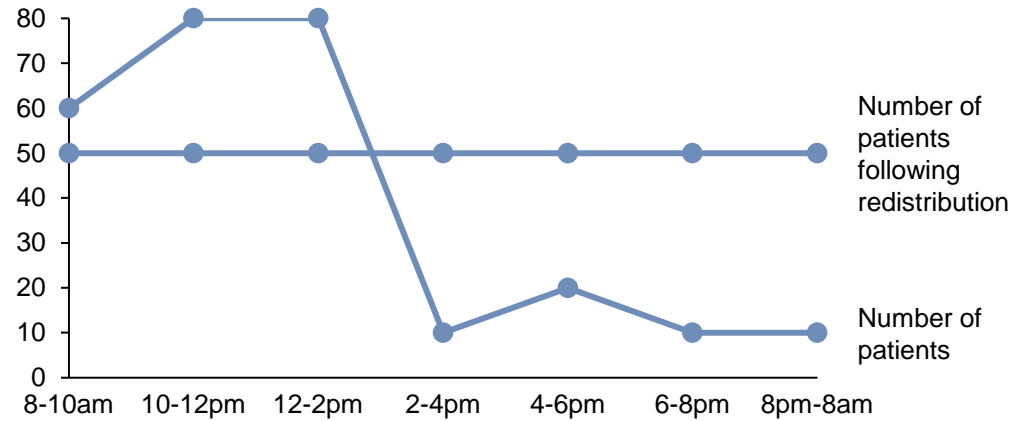


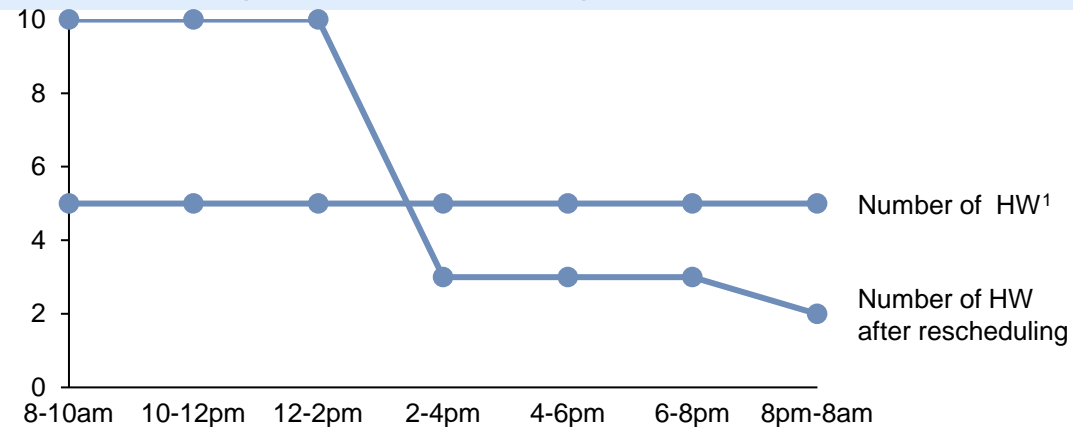
Exhibit 1: Findings from analysis on optimizing patient to health worker ratio

Argungu

Rescheduling client appointments keeping HW schedule constant



Rescheduling HW hours keeping client inflow constant



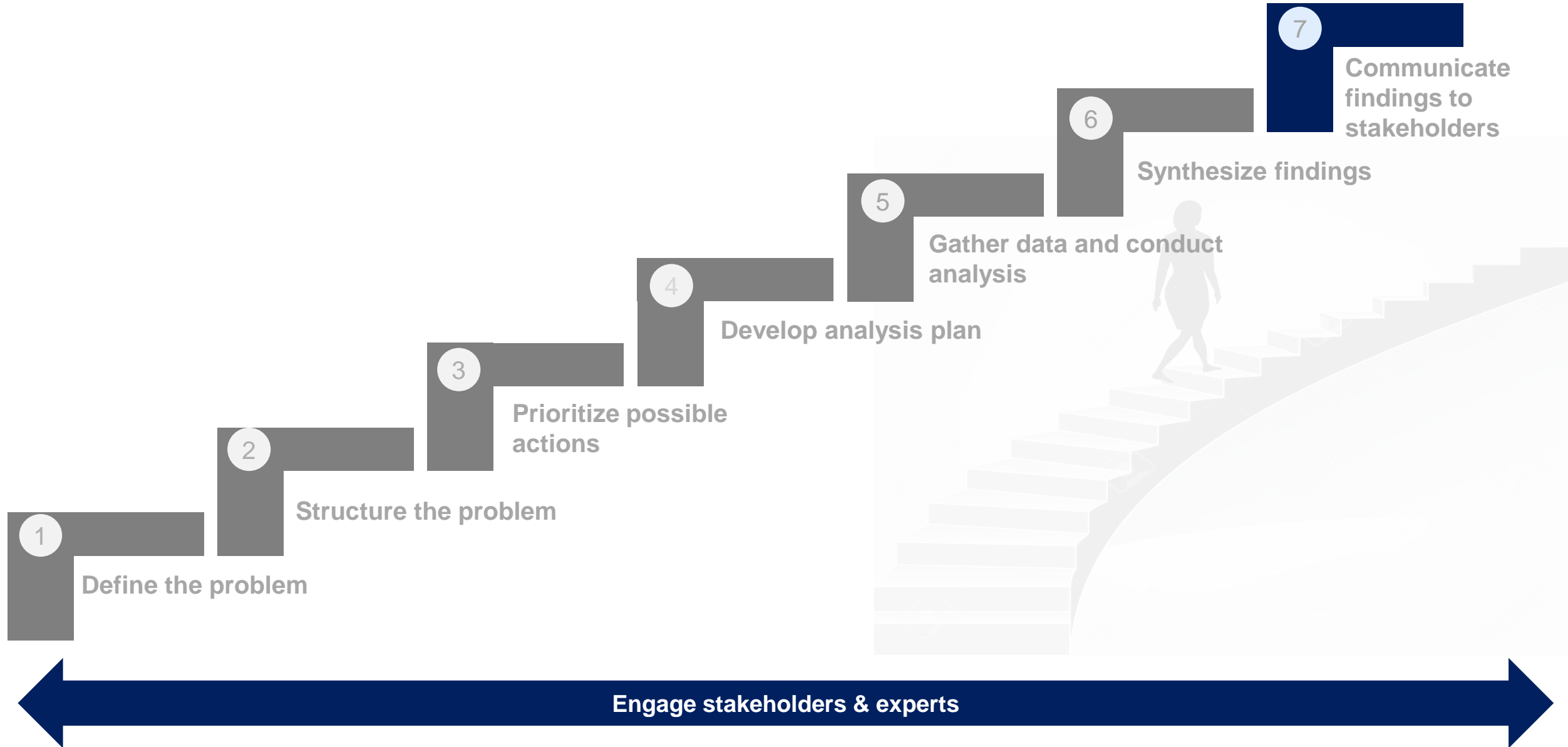
Summary of findings

- Even distribution of patient appointment times will result in 45 patient visiting the health facility every two hours which exceeds the number (40 patients) that the available 5 HW¹ can attend to within 2 hours
- Revising HW schedule to have more staff available during peak client times will optimize patient to HW ratio throughout the day
- In addition, literature shows that it is easier to manage health worker schedule than it is to manage patient appointment times
- As a result, the best recommendation is for Argungu LGA to revise its health worker schedule

Synthesis

- Argungu needs to revise health worker schedule to have more staff available during peak client times

The 7-step approach to problem solving

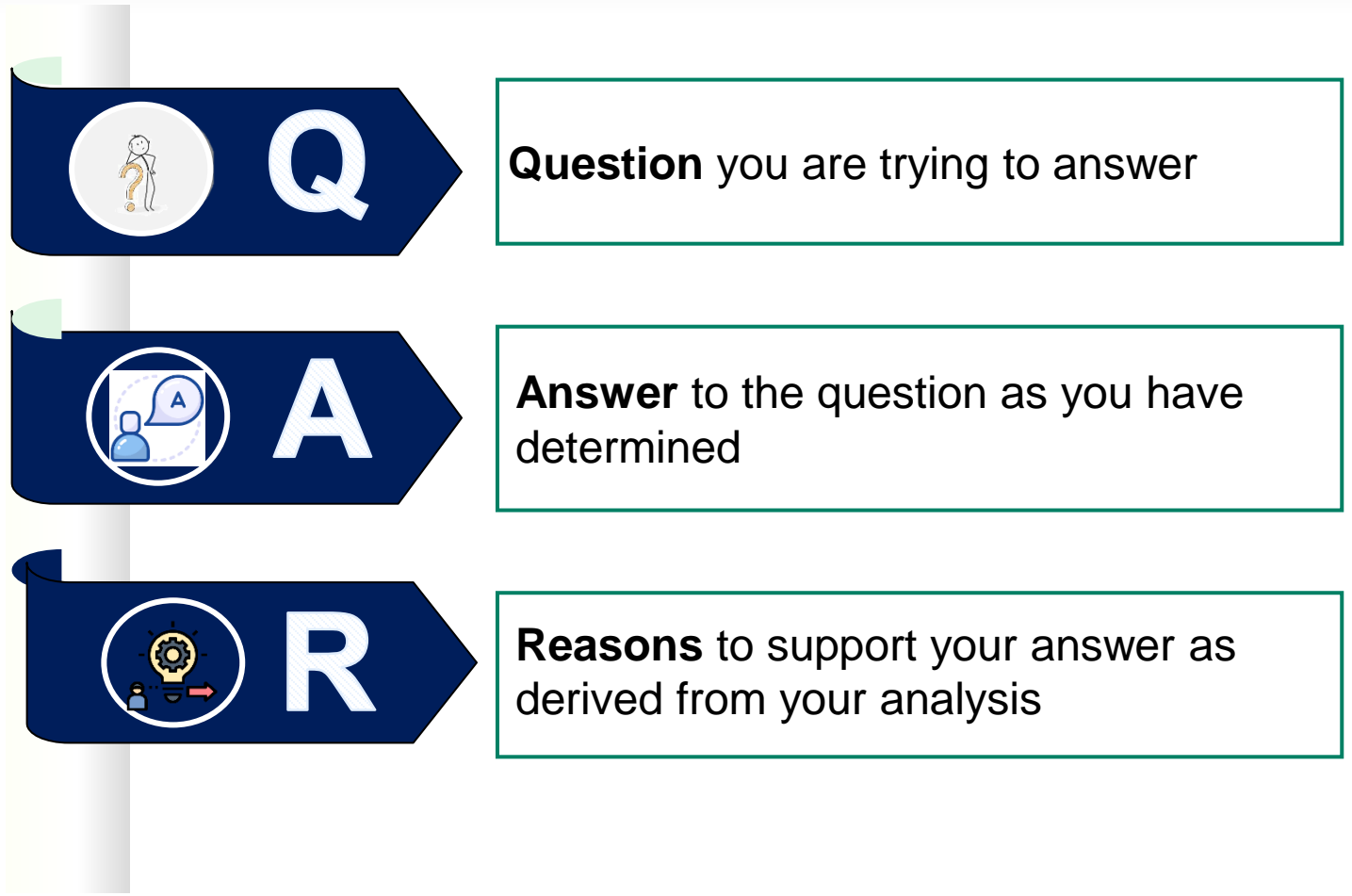


Get commitment to implement recommendations by communicating findings

- Powerful communication of findings and recommendations, along with supporting arguments, is vital to the success of a project
- This communication is usually in the form of a document. All documents are headlined with a compelling storyline and have a one- to two-page executive summary up front which explains “what the document says”
- Syndicate key messages with a broad range of stakeholders and start obtaining their commitment towards the recommendations/changes even before presentation of the formal document
- Offer to help prioritize and accelerate implementation of quick wins to build momentum towards implementation of the final recommendation. Remember: if you do not see the recommendation in action, your work is not yet done!



In communicating your findings to the relevant stakeholders, think **Question Answer Reasons**



Any questions or comments?



QUESTIONS?

RECAP



Kindly summarize take-aways from today's session

*Thank
you*

