

# Ideation Phase

## Brainstorm & Idea Prioritization Template

Date	03 November 2023
Team ID	NM2023TMID04527
Project Name	Tracking Public Infrastructure and Toll Payments using blockchain

### Brainstorm & Idea Prioritization Template:

Implementing a blockchain-based solution for tracking public infrastructure and toll payments offers an innovative and transparent approach to improving infrastructure management. The primary objective of this project, "InfraChain," is to create a comprehensive system that enhances accountability, efficiency, and user experience while ensuring sustainability.

### Step-1: Team Gathering, Collaboration and Select the Problem Statement



## Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

🕒 10 minutes to prepare

🕒 1 hour to collaborate

👤 2-8 people recommended



### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes



#### A Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.



#### B Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.



#### C Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

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### Define your problem statement

#### PROBLEM

Traditional infrastructure management and toll payment systems often lack transparency, making it difficult for authorities and the public to track the allocation of funds and the condition of infrastructure



#### Key rules of brainstorming

To run a smooth and productive session



Stay in topic.



Encourage wild ideas.



Defer judgment.



Listen to others.



Go for volume.



If possible, be visual.

## Step-2: Brainstorm, Idea Listing and Grouping

**2**

**Brainstorm**

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

**Person 1**

Smart contracts can be used to automate toll collection and facilitate payments in real-time.

Introduce a blockchain-based token system for toll payments. Users could purchase toll tokens and use them to pay for tolls.

Having this information on a transparent blockchain can help ensure accountability and efficient maintenance.

**Person 2**

This could include storing digital identities on the blockchain, allowing for secure and efficient verification during toll payments.

Utilize blockchain for tracking the supply chain of materials and resources used in public infrastructure projects.

This can help in ensuring the quality and origin of materials, reducing fraud, and optimizing resource allocation.

**Person 3**

Use blockchain to store and analyze data related to infrastructure usage. This data can be used to plan future infrastructure projects, optimize existing infrastructure, and predict maintenance needs.

Create a blockchain-based system to track the allocation of funds for infrastructure projects.

This ensures that tax dollars and other funding sources are used efficiently and transparently.

**Person 4**

Implement blockchain to facilitate and record public-private partnerships for infrastructure projects.

Develop a blockchain-based feedback and complaint system for users to report issues with public infrastructure.

Utilize blockchain to record and monitor the environmental impact of infrastructure projects.

**3**

**Group ideas**

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

Seek funding from government grants, private investors, or a combination of both. Consider revenue-sharing models with local governments and toll collection agencies to ensure sustainable financing.

Remember that communication and collaboration among team members and stakeholders are crucial throughout the project.

## Step-3: Idea Prioritization

**4**

**Prioritize**

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

**Importance**

Public users and agencies can have a clear and verifiable record of their payments, reducing disputes and ensuring fair toll collection practices

**Feasibility**

Integration with IoT devices and sensors may require additional infrastructure and investment