

Assignment No. 1

Aim:

To develop the problem under consideration and justify feasibility using concepts of knowledge canvas and IDEA Matrix.

Problem Statement:

The below representation is the IDEA Matrix for a Implementation of Cost Optimization Approach for LiFi Data transmission technology.

IDEA Matrix :

I	D	E	A
<u>Increase:</u> Speed of the Data transmission and & provide data transmission security to the user.	<u>Drive:</u> Interaction between Developer & File managing Environment.	<u>Educate:</u> The API can be used to perform faster data transmission and provide security to the users.	<u>Accelerate:</u> Transmission speed and better resource utilisation.
<u>Improve:</u> Speed of transmission and security.	<u>Deliver:</u> Better performance.	<u>Evaluate:</u> Maximum data transmission in minimum time.	<u>Associate:</u> Multiple users or group of people.
<u>Ignore:</u> Interference of outer lights.	<u>Decrease:</u> Time required for data transmission.	<u>Eliminate:</u> Limitation of one way communication .	<u>Avoid:</u> Radiation due to data transmission

Table 1: IDEA Matrix

IDEA :**I:**

Increase	Speed of the Data & provide data transmission security.	User gets the better transmission speed, security, quality & better interface with System.
Improve	Speed of transmission and security..	Better Performance & increased speed.
Ignore	Interference of outer lights.	Doesn't interface with external lights.

Table 2: I

D:

Drive	Interaction between developer & File manager.	Developer will use Java to intract and build simple API.
Deliver	Better performance.	Faster data transmission and desired output.
Decrease	Time required for data transmission.	Reduce human effort of manual data transmission .

Table 3: D

E:

Educate	The API can be used to perform faster data transmission and provide security to user .	We can use this technology to improve day-to-day human life.
Evaluate	Maximum data transmission in minimum time.	Better transmission rate with user data security.
Eliminate	Limitation of one way Communication.	Provides two way communication and eliminates slow data transfer.

Table 4: E

A:

Accelerate	Transmission speed and better resource utilization.	The system aims to accelerate the transmission speed and focuses on resource utilisation through Java API.
Associate	Multiple users or Group of people.	Multiple users can use it.
Avoid	Radiation due to data transmission	Avoids radiation effects which was caused by traditional wireless .

Table 5: A