Project Design Phase-I
Proposed Solution

Date	07 October 2022
Team ID	PNT2022TMID25540
Project Name	Project – Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence

Proposed Solution:.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	AI can help response teams understand natural hazards, monitor events in real time, and anticipate specific risks in the face of impending or on-going disasters.
2.	Idea / Solution description	The impact of extreme natural events is also defined by socio-economic resilience, with inequalities exacerbating risks and vulnerabilities. Experts stress the need to explore interoperable solutions that can work in different contexts and even across borders to reach areas with less developed disaster infrastructure.
3.	Novelty / Uniqueness	Artificial intelligence (AI) can enhance our understanding of natural disasters and support disaster relief/early warning. However, AI is not yet part of the modus operandi in natural disaster management. Therefore, the Focus Group on AI for Natural Disaster Management (FG-AI4NDM) capitalizes on the growing interest and novelty of AI in the field of natural disaster management to help lay the groundwork for best practices in the use of AI for: assisting with data collection and handling, improving modelling across spatiotemporal scales, and providing effective communication.
4.	Social Impact / Customer Satisfaction	Natural Disasters can cause social impacts that are similar in different types of communities such as the need for rebuilding, urgent access to health care, simply accessing shelter during/after a storm, availability to food and water, turning towards the government for aid

		or towards religious organization for aid and moral support.
5.	Scalability of the Solution	• **Be Hardware Agnostic**. A hardware-agnostic DR solution can replicate data from a virtual machine to a DR Target so long as the underlying hypervisors are compatible. This allows businesses to take the complexity out of DR. • **Work on an Individual Virtual Machine Level.** The ability to target and replicate individual virtual machines (VMs) rather than entire logical unit numbers (LUNs) is a must for scalability, especially on modern, high-efficiency computing environments that use virtualization. This helps to reduce overall storage and network requirements. • **Enable Simplistic Management.** Over time, business computing needs can grow to the point where a single business is running dozens or hundreds of individual VMs for all of their different applications and databases. If the DR solution is too complex, it can turn managing recovery operations for all of the company's servers and VMs too difficult to be effective.