Weather Forecasting with AR

- Organization— Department of space, Indian space Research organisation(ISRO)

- Domain Bucket— Disaster Management

- Team Name— Ablaze Hearts (NS2SH)

इसरो ISRO

By Indulging augmented reality presentation in the system, a more intuitive navigation interface provides users a new way of accessing weather information..

Overview

A Weather Forecasting app With AR .

Enhances new experience of Forecasting AR

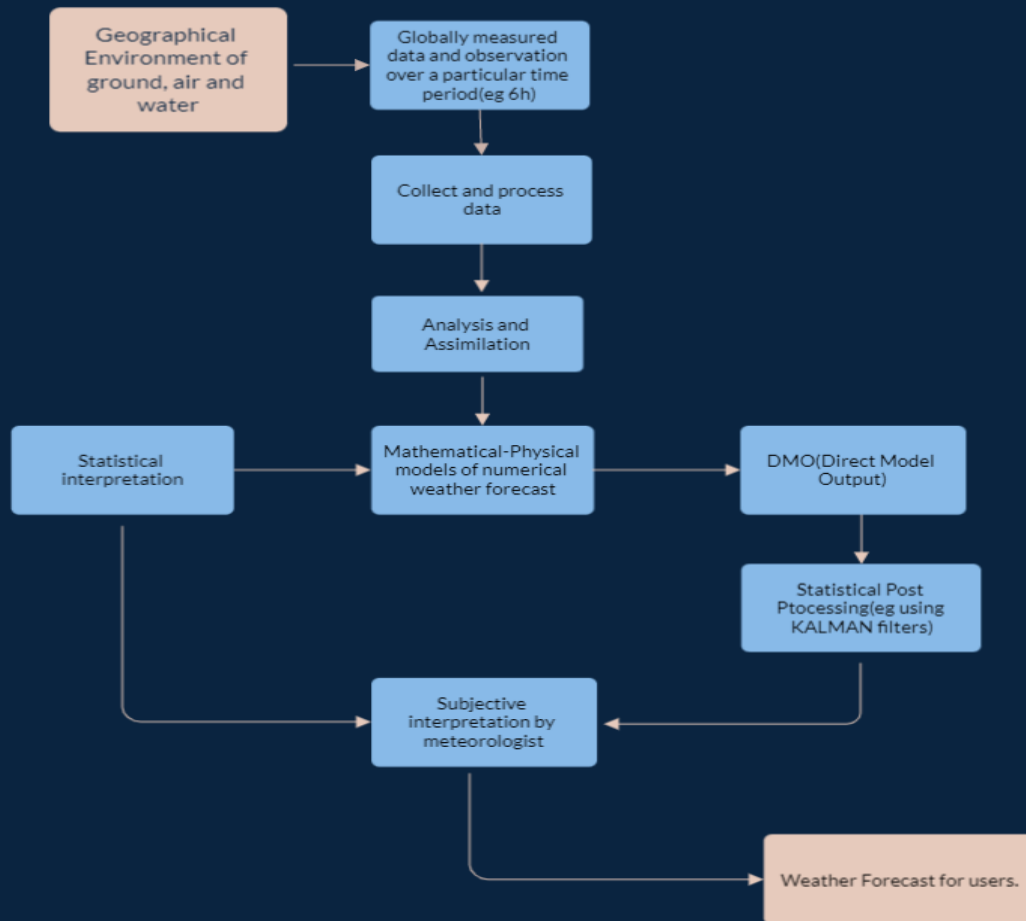Creative & Interactive UI

Primarily based on Kotlin language

Using Android Studio & PlugXR

Highest precise Accuracy using WeatherBit

Weather Forecasting


```
Geographical
Environment of        →    Globally measured
ground, air and            data and observation
water                      over a particular time
                           period(eg 6h)
                                  ↓
                           Collect and process
                           data
                                  ↓
                           Analysis and
                           Assimilation
                                  ↓
Statistical          →     Mathematical-Physical    →    DMO(Direct Model
interpretation             models of numerical            Output)
                           weather forecast                    ↓
                                                          Statistical Post
                                                          Ptocessing(eg using
                                                          KALMAN filters)
                           Subjective               ←
                           interpretation by
                           meteorologist
                                  ↓
                           Weather Forecast for users.
```

Outcomes

- **Prior alert for upcoming cyclones , tornado etc.**

- **Agricultural benefits**
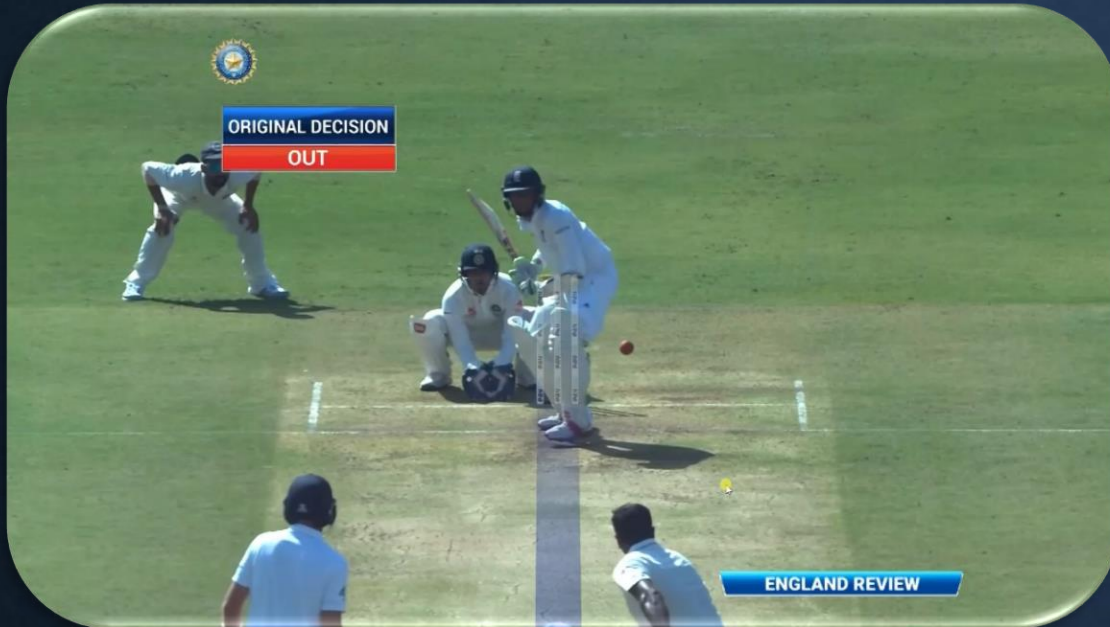
- **Beneficial to dressing**

- **Improves transportation safety**

- **forecasting benefits tourism**

Augumented Reality -
a sense of presence in real world

Unique opportunities for immersive reality

New levels of interactive experiences

Content quality improvement

Enhance perception to understand complex thing

Real life application in architecture , medical etc

PROTOTYPE
DESIGN & ARCHITECTURE

ANDROOID STUDIO

Android Studio is the official Integrated Development Environment (IDE) for Android app development, based on IntelliJ IDEA

KOTLIN LANGUAGE

Kotlin is a general purpose, free, open source, statically typed "pragmatic" programming language initially designed for the JVM and Android.
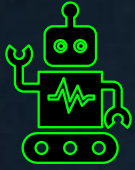
APP DEVELOPMENT

Application development is the process of creating apps that run on any mobile platform: Android and iOS.
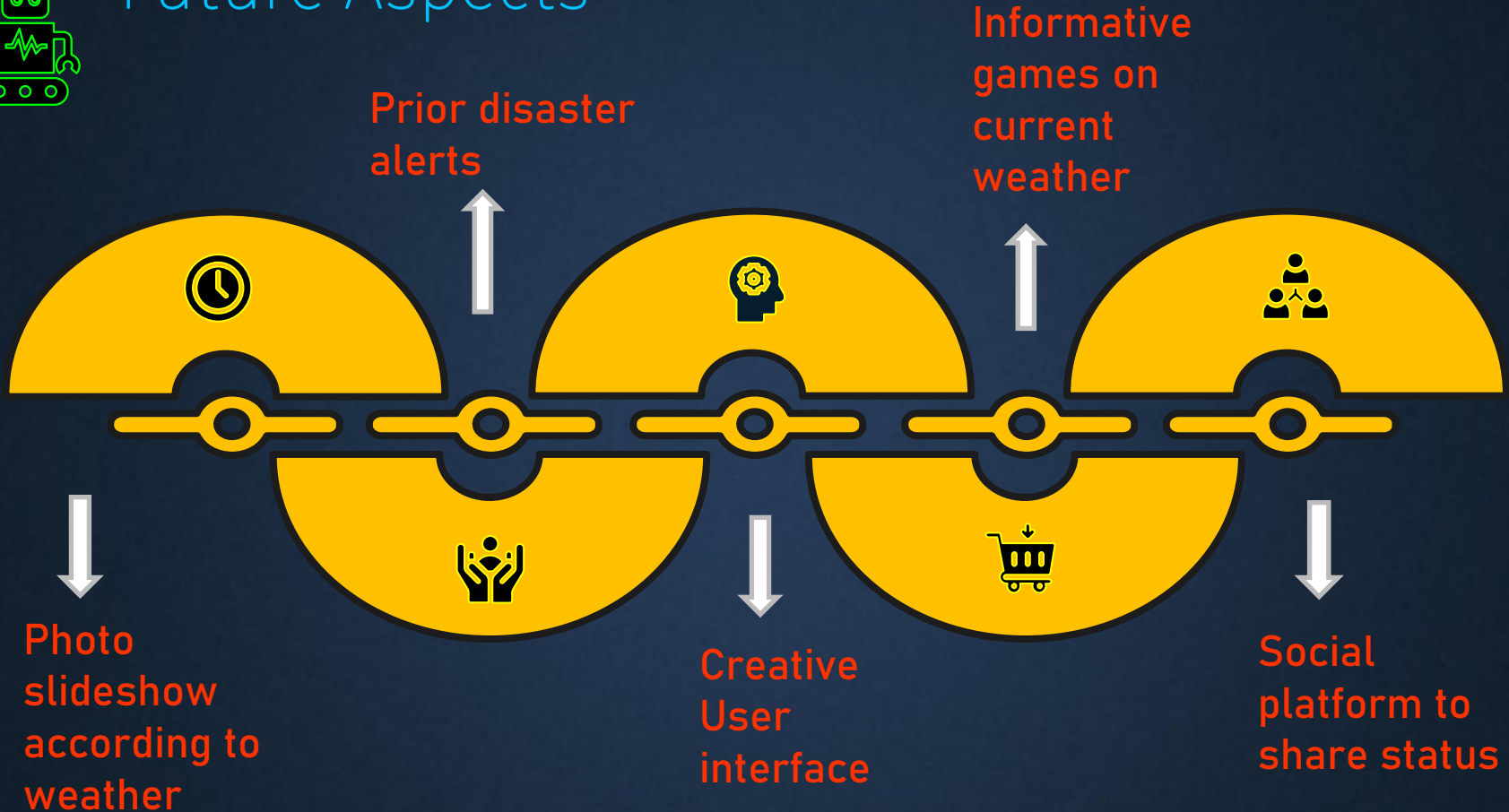
AUGMENTED REALITY

Augmented reality (AR) is an enhanced version of the real physical world that is achieved through the use of digital visual elements, sound, or other sensory stimuli delivered via technology.

Hong Kong 22°c   Visibility Clear S

Future Aspects

Prior disaster alerts

Informative games on current weather

Photo slideshow according to weather

Creative User interface

Social platform to share status

THANK YOU

Hope you liked our presentation and Idea !