## IoT Based Smart Crop Protection System for Agriculture

As you add steps to the experience, move each these "Five Es" the left or right depending on the scenario you are documenting.

**SCENARIO Exit Entice Extend Enter** Engage Browsing, booking, attending, and rating a What do people What happens after the How does someone What do people In the core moments local city tour initially become aware experience is over? typically experience experience as they in the process, what of this process? as the process finishes? begin the process? happens? Steps What does the person (or group) The user feels easy typically experience? An Alarm noise will to get information Device continues its Crop is protected Monitoring the Automatic control of User need not to be be generated if any The web application is monitoring from the place where The detection of Alerting the user if from animals and The data are sent to water motor if there environment is done in the field nstalled in there phone animal or bird is animals is done by he is cloud anything detected is a need for water birds to get connected with 24/7 detected sensors all the devices Interactions device can be used What interactions do they have at Device runs on the users can use the users can use the all the time and user User feels easy to each step along the way? background and crop application through application through can exist whenever communicate field monitoring mobile device People: Who do they see or talk to? mobile device they want procesing all the time Places: Where are they? Things: What digital touchpoints or physical objects would they use? **Goals & motivations** Protects the crop To send alert message if Produces alarm To monitor the crop To monitor the soil At each step, what is a person's any animal or bird from animals birds To protect the crops sound if any animal moisture, temperature, from animals and detected or any of the primary goal or motivation? from the animals and and environmental humidity of the or bird detected ("Help me..." or "Help me avoid...") environmental factors birds plants factors environment crosses the condition **Positive moments** What steps does a typical person Efficient working of No need for manual Easy to maintain the find enjoyable, productive, fun, Data monitoring is Easy to work with it work device motivating, delightful, or exciting? parts continuous **Negative moments** Sensors may go What steps does a typical person No knowledge about Delay of arrival of No knowledge about faulty due to attack of Users has to have the find frustrating, confusing, angering, SMS due to slow the app birds and animals the app mobile for 24/7 costly, or time-consuming? internet Areas of opportunity Devices sensing the How might we make each step Immedialte alarm and Makes the device Constantly checking better? What ideas do we have? environmental send SMS to users Make devices the data taken from useful to everyone What have others suggested? parameters can be through mobile available in market the iot devices with less knowledge changed by sensors of more accuracy