**“Do it yourself: Make your online GIS ‘Water Watch’ dashboard”**

**(A Workshop/Training on Online GIS Water Applications for State WRD’s)**

**Delivery Board: Virtual (MS Teams); Technology: Esri ArcGIS**

**Duration: 4 Days (@ Hrs/Day), Dates: TBD; Timing: 10AM-2PM**

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|  | **DAY 1** | **Duration** | **Resource Person** |
| **1** | Training Objective and Overview | 15 Min | NMPU/World Bank (WB) & Esri India |
| **2** | Overview of WB State Online GIS ‘Water Watch’ Dashboard/Portal –  Data/Data Model,  Technology/System Requirement  Database and other Pre-Requisites | 45 Min | West Bengal SWID and Esri India |
| **2** | Introduction to Data Ingestion/Authorization –  Creation, Collation of data to Database (PostGRES)  Publishing the data as Web Service (WMS/WFS etc)/Web Map | 15 Min | Esri India Team |
| **3** | Create Content over Web  Creation Or Modification of WebMap  Configure Web Application using Templates | 15 Min | Esri India Team |
| **4** | Hands On | 60 Min | State WRDs |
| **5** | Hands on Result Display by Teams | 20 Min | State WRDs |
| **6** | Concluding Remarks | 10 Min | NPMU/WB Team |
|  | **DAY 2** |  |  |
| **1** | Create Content Over Web  Configure Web Application using Web App Builder  Configure Operations Dashboards | 30 Min | Esri India Team |
| **2** | Hands On | 60 Min | State WRDs |
| **3** | Hands on Result Display by Teams | 20 Min | State WRDs |
| **4** | Configure Mobile Apps for Field Data Reporting  Configure Story Maps for Case Study /Project Success Story Dissemination | 30 Min | Esri India Team |
| **5** | Hands On | 60 Min | State WRDs |
| **6** | Hands on Result Display by Teams | 20 Min | State WRDs |
| **7** | Concluding Remarks | 10 Min | NPMU/WB Team |
|  | **DAY 3** |  |  |
| **1** | Setup you Portal Home Page  Create Groups and Members  Monitor Activities Log using Portal | 20 Min | Esri India Team |
| **2** | Hands On | 30 Min | State WRDs |
| **3** | Hands on Result Display by Teams | 10 Min | State WRDs |
| **4** | Data Atomization-  Synchronizing Encardio Data to Database  Pushing API’s data to Web Applications | 45 Min | Esri India Team |
| **5** | Discussion and Closure | 15 Min | All |
|  | **DAY 4** |  |  |
| **1** | Showcasing a Pilot Project Developed by the Participants using their own data. | 90 Min | State WRD’s |
| **2** | Esri Water Resources Overview and Demand Bases Session (if any) | 60 Min | Esri India Team |
| **3** | Road Ahead | 30 Min | NPMU/WB/Esri India and State WRD’s |

**Requirement –**

1. Every State WRD will need to crate an ArcGIS Online Account. (<https://www.arcgis.com/home/createaccount.html>)
2. Mobile Apps to be downloaded – ArcGIS Field Maps and Survey 123
3. Participants should have GIS knowledge and hands on using ArcGIS Desktop.
4. Participants interested in Day 3, S.No.4 should have .NET programing, Esri API’s and RDBMS (spatial context) knowledge.