

## TIMELINE

The challenge 2023 consists of 6 steps.

### STEP 1: Register for the challenge

Write to [hello@isee4xai.com](mailto:hello@isee4xai.com) to express your interest in participating. Teams from academia, industry or a mix are welcome to participate.

By registering, you express your interest to complete steps 2-7 to

- create explainers into iSee
- evaluate them using iSee Cockpit on an existing Use Case or a Use Case of your choice

We (iSee team) will explain how to do this.

### STEP 2: explainer API usage and iSee cockpit tutorial (online)

We will provide HOW TO Guidelines including:

- User guide video to explain how to build and upload an explainer, how to use the explainer library API, and how to select the questions from the questionnaire to evaluate through the dialogue
- online courses and Q&A sessions
- Frequently Asked Questions page
- More technical aspects such as contributing to the iSee Explainer Library, and format of the data sample.

### STEP 3: Build and add your explainer

1. Upload your explainer file into iSee using the iSee Explainer ingestion process (in the format expected by the platform). We are happy to share a collaborative canvas ([iSee Explainer Lib Boilerplate.ipynb - Colaboratory](#)) that guides through the skeleton that every explanation method has to follow in the Explainers library. By filling the canvas, you will make your explainer compatible with iSee and help the iSee team in processing it. You will be asked to implement an instance of the canvas, following the template /skeleton proposed.
2. An example notebook ([iSee Explainer Template Example.ipynb - Colaboratory](#)) is also shared with you and we will walk you through both colaboratory material during the online tutorial (week c. 22nd May 2023)
3. While uploading your file or sharing the link by email you will have the possibility to contact the team to validate it.
4. We would welcome an explainer having some level of reusability. You can outline in your submission how you have assessed this [reusability potential](#).

5. Write the first part of your submission : Share your API endpoint into the explainer library, share lessons learnt, experience (easy to use ? room for enhancement ?), in free text.

*Note: we would welcome explainers working on time series data set to link to the ConnectedCare (health at home) use case and the Depression detection use case.*

#### **STEP 4: Use the explainer with iSee on one existing or new use case**

You will first create a new use case through the cockpit, or reproduce an existing one that we will exemplify during the tutorial. You will enter *user persona* and their *intent* about using explanation.

Then you will link the explainer to a *use case* by identifying specific intent and values that reflect how the explainer has satisfied (or may satisfy from your point of view) the intent you have previously identify. This link could be done in the Cockpit (*explanation strategy recommendation view*) where we will allow you to link another explanation strategy and a seed case (known evaluation result of that explainer).

This other explanation strategy will be pre-built (simple one) so that you can reuse it for another explainer end point within the Explainer iSee library.

Once your explainer linked to the intent through the seed case, then your can use the recommendation service of the Cockpit again and check if the explanation strategy with your explainer is recommended now and their similarity score (this reflect the suitability of the explanation strategy).

#### **Step 5 :Submission of your report and answers to the questionnaire**

See section [SUBMISSION](#).

#### **STEP 6 : Present on the XCBR Workshop day.**

On the day in Aberdeen, you will have the opportunity to present your work, share challenges and advice for enhancement or future applications.

### **SUBMISSION**

A max 5 pages report is asked. You will submit it by email at [hello@isee4xai.com](mailto:hello@isee4xai.com). Your report will contain details for the jury to understand the following points:

- a) The explainer is linked to an intent with questions (API end point and readme on how to run it for instance).
- b) The application of the explainer (Explanation strategy) is recommended on the chosen use case, with a similarity score.
- c) If you performed multiple iterations to improve the similarity score using iSee cockpit, how did

it go ?

d) Answers to the evaluation questionnaire.

**QUESTIONNAIRE:**

1. How much time have you spent to enter the case in the cockpit, to upload in the iSee library, to make it working in the iSee-expected format, to test it ?
2. Was a strategy based on your explainer recommended by iSee cockpit ?,
3. If no, did you manage to link the case to your explainer by adding it as a potential new explanation strategy ?
4. Have you entered a new evaluation case for your explainer ?
5. If your explainer was recommended by iSee cockpit, what was the similarity score ?
6. How many iterations have you done reviewing your explainer or evaluation case to get the highest similarity score ?
7. Tell us how intuitive you found the user interface of the cockpit.
8. Are the tooltips useful?
9. What would you advise to change in the User Interface ?