

## CASA0023 Remotely Sensing Cities and Environments

### Component 1: A 10-minute group presentation (30%)

A city (of your choice) is tendering to improve compliance of their local / national / metropolitan development plans in adhering to and achieving compliance with global development goals / frameworks / agendas (e.g. New Urban Agenda, Sustainable Development Goals or the Sendai Framework for disaster risk reduction). The city has a total of £500,000 to spend.

Your group must deliver a **10 minute presentation to bid for the work** created in Markdown (e.g. Xaringan or Quarto) and hosted on GitHub. You group must:

- Clearly define the problem or issue the city face.
- Demonstrate how improving or resolving this issue would improve compliance or adherence with development agendas / goals.
- Outline and show the benefits it would bring to the city and its population.
- Propose a logical workflow that incorporates *some* earth observation data. No actual data analysis is required for the presentation or component. A minimum of one earth observation data set must be included in the workflow.
- Discuss how the data created or the devised workflow could be incorporated into the city's "business as usual" data pipelines or workflows.
- Provide a project management overview, including aspects such as timelines (e.g. Gantt charts), estimated spending plan and dates of key deliverables / stakeholder engagement opportunities. You might want to consider dividing components into several work packages (or themes of the project that have specific outputs).

As the project is funded from public money it must provide value for money and fulfil a pertinent challenge or need. All group members must contribute to the GitHub repository.

**Deadline:** Group presentations will be in the last week of term during the taught sessions.

**Submission:** Markdown presentation given in person and hosted on GitHub Pages. All group members must contribute to the repository.

### Component 2: Online individual learning diary (70%)

It is expected that you will engage with the weekly content, reading and practical material. Each week you will write around 4 paragraphs in an online learning diary (using Quarto) and include outputs from the practical or literature. We will cover the tools required to create the portfolio in week 2, during week 1 please just use a word editor and then copy in the content to the portfolio in week 2.

A learning diary is a narrative on what you learnt and found interesting each week using the relevant resources (e.g. readings). Its purpose is to **summarise, analyse and comment on** the material presented each week. It is not a formal piece of writing but it will document what you have learnt, applications of the content used in literature and your comprehension and contextualisation of the content. As such a diary will have a very informal tone and approach compared to a traditional report. There is no specific formatting requirement, and students are free to convey this information through any reasonable means. This could include traditional text based response, diagrams, large mind maps or a mixture of these approaches for each typical heading listed below. However, it is vital that your weekly entry has some text explaining the response if you have used another medium (e.g. mind maps), that is it is logical, legible and easy to follow. In the past students have written

extensive weekly learning diary entries and we ask for no more than the equivalent of 2 pages of text each week (figures are not included). Although this is not a requirement and students have done well with much less text than this.

Your responses will include concepts from the lectures but you **should not** just restate what the academic has said. The diary is a **subjective** piece of work and it should consider what you have learnt in relation to your own views and independent thoughts on the topic, academic literature and the course textbooks. Typically you might structure a weekly entry with the following headings, following the marking criteria:

- **Summary:** A brief summary of the content, this could include outputs from the practical, small code chunks with relevant explanation and flow charts (either by hand or using software). It will also **include independent thought** such as questions, benefits and limitations about the presented data and methods or their applications. Length: 1-2 paragraphs.
- **Applications:** A narrative /discussion on how the data / concepts / methods (or related concepts) have been applied **in literature / policy or other studies**. It is **vital to do some reading and reference it each week**. Here, you must comment on the approaches in a range literature, however do not list literature (more on this in the taught sessions). Length: 2 paragraphs.
- **Reflection:** A reflection that places the skills, tools, data or policies in a broader context (e.g. how realistic would it be to integrate EO to policy given certain constraints) and provides some personal reflection/thought (e.g. what was interesting, why and why might the data or tools presented this week be useful in the future to you or perhaps they won't be useful but something similar might be). Length: 1 paragraph.

**In some weeks** specific questions have been set due to the content presented (e.g. in week 2 we cover portfolio tools for online books and presentations, with the task being to make a short presentation on a satellite and create your personal workbook). Where specific questions are set you must complete those questions **and also** provide at least a paragraph of personal reflection (the last bullet point above).

**At the very start of your learning diary** please provide a personal introduction. This could include information on your background, previous education, professional experience, interests and what you hope to get from the module and degree. Remember this will be a public facing document, if you have any concerns about putting this information online then please speak with the module leader.

**Deadline:** Friday 28<sup>th</sup> March 2025, 5pm. There are no opportunities to submit a second version after this deadline.

**Word limit:** This assessment is an informal diary. Students should write no more than 400 words (or equivalent communication method) per section equating to a maximum of 1,200 words per weekly entry. Typically the reflection will be shorter. However, a good response can be achieved with as few as 250 words per section (750 words per weekly entry). Writing more of the same will not yield a higher mark. Content beyond 400 words per section will not be marked.

**Submission:**

1. Online individual learning diary through GitHub Pages. The deadline will be taken from the last commit of the repository. It is **expected that the student will commit to their repository**

**each week** to update their learning diary. Submissions without regular commits will be invalid.

2. All weekly entries exported (or copied) into a format that can be uploaded to Turnitin (e.g. pdf or word) in a single file (e.g. all weekly entries copied into a single word document).

Late submission of assessments will be subject to the [standard penalties according to the UCL regulations](#)

Poor academic practice or academic misconduct will be reported to the Module Convenor in the first instance who will follow the relevant policies outlined in the UCL academic manual, [Chapter 6, section 9](#).