Qualitative user experience testing of the app:

**Daero – 11:30am Friday**

1. Send them email with link to app, dummy data file, and after-testing link to questionnaire
2. Get them to open app
3. Intro to what going to do in this session. Can ask questions / make points as going along.
4. Give brief introduction to app and what I set out to achieve
5. Give them a chance to have a look at the introduction tab
6. Then ask qualitative user experience research questions 1:
   1. What is your first impression of this platform?
      1. Looks nice, no major flaws
      2. If lots more papers, list could be a bit long?
      3. Most papers have conventional as an agricultural system
      4. Make graph reactive if more data points
   2. What do you expect to gain from using this platform? / When do you think someone would use this platform?
      1. See how insects respond to different threats – once integrated other data – e.g. pesticide as Daero used
      2. See what data is out there
      3. Do meta-analysis about insects
7. Go to agricultural systems tab, get them to run a custom model
8. Go to uploading data tab, get them to upload file
9. Then ask qualitative user experience research questions 2:
   1. Was anything surprising or did not perform as expected?
      1. Surprising in a good way
   2. Was the platform easy to understand and use?
      1. Yes, anyone can do it
      2. Probs needs knowledge of MA
   3. What did you like and dislike about the design of the platform?
      1. Don’t like the MMA “tab” - looks like a tab but isn’t – bit annoying
      2. Simple, clean
   4. Do the different sections complement each other and fit together so the app works well as a whole?
      1. Yes
   5. What words would you use to describe the platform?
      1. Easily perform MA of MA about insects with GLITRS
10. Ask them to complete SurveyMonkey anonymous survey
11. Delete file they uploaded from Google Sheets

Other points:

* What is the point of being able to run multiple ones e.g. biomass and survival doesn’t make much sense.
* Need more data to feel the greatness
* Warning if multiple people are already using app that it might be slow?

**Justin – 12:00pm Friday**

1. Send them email with link to app, dummy data file, and after-testing link to questionnaire
2. Get them to open app
3. Intro to what going to do in this session. Can ask questions / make points as going along.
4. Give brief introduction to app and what I set out to achieve
5. Give them a chance to have a look at the introduction tab
6. Then ask qualitative user experience research questions 1:
   1. What is your first impression of this platform?
      1. I like it
      2. Could be more utility, e.g. hoovering and seeing breakdown, rather than doing extra table
      3. Easily understandable and straightforward
      4. Good intro info and info on data
   2. What do you expect to gain from using this platform? / When do you think someone would use this platform?
      1. Way to run models on MMA without having to code
      2. Living database very good idea – good for collaboration
      3. Look for papers you may have missed if doing yourself
      4. Very useful thing to do
7. Go to agricultural systems tab, get them to run a custom model
8. Go to uploading data tab, get them to upload file
9. Then ask qualitative user experience research questions 2:
   1. Was anything surprising or did not perform as expected?
      1. Surprised so little papers have co-ordinates
   2. Was the platform easy to understand and use?
      1. Yes
   3. What did you like and dislike about the design of the platform?
      1. Figure good
      2. Liked how quickly model ran and then immediately get nice graph
      3. Liked being able to plot % change rather than LRR
      4. Figure best thing
      5. Definitions of agricultural systems is good
      6. Map will be great once more populated
   4. Do the different sections complement each other and fit together so the app works well as a whole?
      1. Yes
      2. Still would’ve been able to get it if I was guiding through it
      3. Make it clear agricultural systems is the tab you can run models – change label? Or say in intro?
   5. What words would you use to describe the platform?
      1. Simple (in a good way)
      2. Easy to use
      3. Awesome
      4. More than good enough for the time spent on it
10. Ask them to complete SurveyMonkey anonymous survey
11. Delete file they uploaded from Google Sheets

Other points (some Justin found, some I noticed as we went along):

* Some grammatical things
  + Intro - “Data is taken from database” – missing the ‘a’
  + Intro - “log response ratio” – need a ‘the’ at the start, also maybe explain what this is in intro
  + AS - “Use this tab investigate” – word missing in agri systems tab.
  + Upload - Point 2 in uploading – choose not chose
  + Upload - “Google Sheets” rather than “googlesheets”
  + Upload - You can then click, rather than you can now click
* Maybe include link to agricultural systems definitions in intro – make it more easily accessible
* Include year of paper in references
* Thought model was quick to run – ran diversity
* Understood output well
* Good coefficient is based on 0 – much easier to understand
* Want a catchy name

**Victoria – 11am Monday**

1. Send them email with link to app, dummy data file, and after-testing link to questionnaire
2. Get them to open app
3. Intro to what going to do in this session. Can ask questions / make points as going along.
4. Give brief introduction to app and what I set out to achieve
5. Give them a chance to have a look at the introduction tab
6. Then ask qualitative user experience research questions 1:
   1. What is your first impression of this platform?
      1. Looks nice, clear, simple explanation.
      2. Few things would like to dig a bit more into e.g. MA – but depends on audience
      3. Wasn’t sure where data had come from – real or made up?
      4. Make map interactive
   2. What do you expect to gain from using this platform? / When do you think someone would use this platform?
      1. Upload your own data
      2. See what else is out there
      3. Track it as it grows
      4. Choose what you want to look at and model
7. Go to agricultural systems tab, get them to run a custom model
8. Go to uploading data tab, get them to upload file
9. Then ask qualitative user experience research questions 2:
   1. Was anything surprising or did not perform as expected?
      1. Not quite clear where to go after uploading
      2. Few things expected to be able to click on that couldn’t
      3. Generally found it pretty clear
   2. Was the platform easy to understand and use?
      1. Yes
      2. More difficult if hadn’t done MA before – could explain that a bit more?
      3. Or details behind the model – but do have ability to download so this covers this
   3. What did you like and dislike about the design of the platform?
      1. Click different things to plot
      2. Good figure and table
      3. Hard to look at preview of data
      4. Clean look
   4. Do the different sections complement each other and fit together so the app works well as a whole?
      1. Going from upload, back to agricultural systems – could include link to thesis with walkthrough
   5. What words would you use to describe the platform?
      1. Clean
10. Ask them to complete SurveyMonkey anonymous survey
11. Delete file they uploaded from Google Sheets

Other points:

* Ran model quickly
* Like significance stars
* Like the switch between LRR and percentage change
* Like all the bits at the bottom – definitions and downloading results
* GDPR issues with entering name – need a bit to explain how it will be used
* Get scroll bar within the preview table in uploading data tab
* Couldn’t press upload to googlesheets button 1st time
* In future – put warning about how long it could take to run model if lots of data
* Take out references from Christina’s agricultural systems definitions
* Put in doi for references

**Adriana – 2pm Monday**

1. Send them email with link to app, dummy data file, and after-testing link to questionnaire
2. Get them to open app
3. Intro to what going to do in this session. Can ask questions / make points as going along.
4. Give brief introduction to app and what I set out to achieve
5. Give them a chance to have a look at the introduction tab
6. Then ask qualitative user experience research questions 1:
   1. What is your first impression of this platform?
      1. Want to play!
      2. More data than thought it would
      3. Easy to use
      4. Would have to have basic understanding of what MA is – fair assumption to make based on the audience
   2. What do you expect to gain from using this platform? / When do you think someone would use this platform?
      1. Made for GLITRS, but could easily be converted to something the public could use - would be good to engage the public with data
      2. For researchers right now, good to be responsive for getting evidence for changes as they’re occurring, good for policy makers
7. Go to agricultural systems tab, get them to run a custom model
8. Go to uploading data tab, get them to upload file
9. Then ask qualitative user experience research questions 2:
   1. Was anything surprising or did not perform as expected?
      1. No, other than my name, which couldn’t input due to the space in the surname
   2. Was the platform easy to understand and use?
      1. Yes
   3. What did you like and dislike about the design of the platform?
      1. Not too much text but can see more if you’d like to
      2. Really like figures
      3. Really like being able to switch from LRR to % change
      4. Would be good to download the model object as RDS so can play with it yourself
      5. Filter by data that is openly available, and download it
   4. Do the different sections complement each other and fit together so the app works well as a whole?
      1. Yes
   5. What words would you use to describe the platform?
      1. User-friendly, information rich without being overwhelming, easy to use even when a complicated thing to learn to do in R
10. Ask them to complete SurveyMonkey anonymous survey
11. Delete file they uploaded from Google Sheets

Other points:

* Good to have explanation on what the different biodiversity metric categories are – e.g. efficiency
* Adriana De Palma couldn’t have space in name which is an issue
  + ID number rather than name? – get in contact with team for ID, name, and email – hold on NHM system, who deal with GDPR.
* Upload to googlesheets not working 1st time again???
  + Thought maybe it was to do with different browsers e.g. chrome, edge, firefox but tested with all those and it was fine for all 3
* Annoying bouncy thing when get to bottom

**Alexa – 3pm Monday**

1. Send them email with link to app, dummy data file, and after-testing link to questionnaire
2. Get them to open app
3. Intro to what going to do in this session. Can ask questions / make points as going along.
4. Give brief introduction to app and what I set out to achieve
5. Give them a chance to have a look at the introduction tab
6. Then ask qualitative user experience research questions 1:
   1. What is your first impression of this platform?
      1. Lots of data
      2. Looks well set out
      3. Like that you can view source code
   2. What do you expect to gain from using this platform? / When do you think someone would use this platform?
      1. Get a quick answer to a question
7. Go to agricultural systems tab, get them to run a custom model
8. Go to uploading data tab, get them to upload file
9. Then ask qualitative user experience research questions 2:
   1. Was anything surprising or did not perform as expected?
      1. No
      2. Surprising that you can do it
      3. Logical
   2. Was the platform easy to understand and use?
      1. Yes
      2. The ability to add own data is really nice, but maybe make it clearer in the intro? The 2 uses are slightly hidden. – Put them as bullet points to make them stand out?
   3. What did you like and dislike about the design of the platform?
      1. Not too much going on which is good. Its clean
      2. Not too much on each page
      3. Not bombarded with info, not overwhelming
      4. Definitions on intro page
      5. Straightforward with what you need to do
   4. Do the different sections complement each other and fit together so the app works well as a whole?
      1. Yes, does fit together well
      2. Good that you can your head around the data first
      3. Not exactly clear what AS tab is for immediately
   5. What words would you use to describe the platform?
      1. Run analyses, modelling tool
10. Ask them to complete SurveyMonkey anonymous survey
11. Delete file they uploaded from Google Sheets

Other points:

* Link to definitions of agricultural systems
* Nice plots
* Numbers on figures?
* Multiple stars for significance?
* What measure of diversity is it? – Include definitions for BD metrics, as well as agricultural systems?
* User doesn’t need to know its googlesheets – just say ‘database’
* Put ‘menu’ rather than MMA as title?