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#	Question	Answer	Answer Name
1	Can the model be trained with additional data sets, such as CAMELS-NZ?	Thanks Jan. Yes - we have included many of the camels data in our research and have tested with the NZ data. The LSTM training is planned to take the newer CAMELS data in coming work.	Peter Taylor
2	What is your soil/irrigation/crop model? e.g. soil type, layer depth, soil parameters?	Hi Jan, The soil-crop model is based on the FAO crop model. i.e. a simple model but capable of capturing different crops and supports some different soil profiles. I will touch on in this in the demo.. feel free to ask follow up questions. I will also point to the documentation.	Peter Taylor
3	What's the link to the web-based tool?	You have to request access.	Ashmita Sengupta
4	Very well-structured presentation! Will the slides be shared alongside the recording? Thank you!	Yes, they will be released in 5 working days with your certificate.	AWS
5	If you talk about river flow, is that on daily (or hourly, or monthly) time steps (output and simulation time steps)?	Model is run on daily timestep. Can be calibrated to daily if daily gauge data available. Most reporting at monthly scale, but all outputs are available at daily resolution.	Peter Taylor
6	Has your work helped farmers to change the agricultural cropping patterns considering the climate-related challenges related to rainfall and water availability at various locations?	Great question. We are addressing this in the Tanzania project, so it is ongoing.	Ashmita Sengupta
7	Is there a way to check or validate the model that was built and run by the agent?	Yes there is a full report provided of what was run by the agent.	Peter Taylor
8	AI Model Creator-Is it using the latest LLM of Gemini to Build the model? Also, what's the trick to select the Best Model?	It's currently using Gemini Flash... 'best' is subjective I agree, but it gives you the best start.	Peter Taylor
9	How well do the automated setup models compare with other approaches i.e. realm/source?	Currently working on comparisons with other models. We've also benchmarked against gauge data. Comparisons show good performance for the intended applications.	Peter Taylor
10	Is the climate change storyline in respect of wetter or more PET the overall world average, or regional summaries?	This is calculated at the basin level directly using the catchment overlaid against the gridded CMIP6 model data.	Peter Taylor
11	Can the models include water quality data such as colour, algal content, turbidity, etc? In some cases the reservoirs can be used as the feed to water treatment plants where such parameters are needed.	No, water quality is not included in the current version of the platform.	Ashmita Sengupta
12	For the case study, were the base-model results calibrated against observed data from a nearby rainfall or streamflow gauge(hydrology & hydraulic)? If no suitable gauge data were available, what alternative datasets or validation methods were used to demonstrate that the model reliably represents the catchment's hydraulic behaviour? Also, can a project-specific, high-resolution input data be incorporated to improve the representation of local surface levels and flow paths?	There is a tiered calibration where it uses gauges when available, then fall backs to gridded runoff when not available. We have the means to incorporate local and regional data where available (e.g. we have Aus based rainfall, IMD rainfall for India etc). IF you have specific data then reach out and we can discuss.	Peter Taylor
13	Are you using CMIP6 anomaly projections (deltas) of precipitation and temperature or the actual precipitation and temperature values to inform future basin wetness and thermal build-up respectively? Also, are the future climate-driven evapotranspiration results temperature-dependent only (Thornthwaite's)?	We support delta method and direct use of the CMIP6 outputs. The evapotranspiration in BF uses the Penman-Monteith formulation. See Bjarke, N., Barsugli, J., & Livneh, B. (2023). Ensemble of CMIP6 derived reference and potential evapotranspiration with radiative and advective components. Scientific Data, 10, 417. https://doi.org/10.1038/s41597-023-02290-0	Peter Taylor
14	Where can we access this?	Please reach out to us and we can discuss access - peter.taylor@csiro.au and ashmita.sengupta@csiro.au	Peter Taylor

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15	Minor streams of the catchment areas are often ignored in the calibration process for validating the model. Does your work help modellers in identifying important minor streams of the sub-catchment that cannot be ignored in the model validation process?	This is a broad scale model and not a fine-scaled/detailed resolution model. Probably better to use a different model.	Peter Taylor
16	Any groundwater model incorporated, linked to the surface water model?	There is GW pumping and storage per reach for agriculture, GW gain/loss in the reach model. The GW part of the model is being improved.	Peter Taylor
17	How do you do ground truthing and site verification ?	See the verification section, but there is lots of validation - comparison against gauges, budyko checks, mass-balance tracking and reporting	Peter Taylor
18	A second part to the Q by Kola Yusuff Kareem "are the future climate-driven evapotranspiration results temperature-dependent only (Thornwaite's)?" The first part has been answered thanks Carmel, Ashmita + Peter.	Live answered	Ashmita Sengupta
19	A second part to the Q by Kola Yusuff Kareem "are the future climate-driven evapotranspiration results temperature-dependent only (Thornwaite's)?" The first part has been answered thanks Carmel, Ashmita + Peter.	The evapotranspiration in BF uses the Penman-Monteith formulation	Peter Taylor
20	What are the pros and cons of using Basin Futures compared to Source?	Different applications - BF is an initial, quick to setup model. Source is more detailed and likely a longer time investment in terms of setting it up, but provides more flexibility in model structure.	Peter Taylor
21	Is it possible to provide an external dataset for model calibration/validation or climate forcing inputs within Basin Futures, or can you only use the preloaded datasets?	Yes, it is possible	Ashmita Sengupta
22	For the planning and playing scenarios, is one able to download the daily flow data from different climate data inputs? for several locations? as one could use this for then complex abstraction application or intercatchment water transfer,.....	Hi Jan, yes all the data for a basin are available to download. There's also an API to access this programmatically.	Peter Taylor