MRes Project Meeting 5

Attendees: Maria Fox, Sophie Turner.

Date: 7/6/2022.

Time: 15:00.

Location: Zoom.

Agenda

Progress review.

Progress

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task | Assignee(s) | Deadline | Done | Comments |
| Account for people arriving and leaving. | Sophie | 31/5/22 | Yes |  |
| Include emissions data and minimise it. | Sophie | 31/5/22 | Yes |  |
| Include packaging waste data and minimise it. | Sophie | 31/5/22 | No | Deadline extended |
| Try getting floats and division to work with MIP or LP solve. | Sophie | 31/5/22 | No | Not necessary |
| Try reading in csv data to MiniZinc. | Sophie | 31/5/22 | Yes |  |
| Try combining MiniZinc with an imperative language. | Sophie | 31/5/22 | Yes | Python |
| Create a ‘shopping list’ from output. | Sophie | 31/5/22 | Yes |  |

Questions/problems

The personnel spreadsheet contains data for people who will be based at the station and people who will go out on field expeditions. Should the program also plan food for those on field trips? Yes.

Discussion

Maria was on holiday last week so the meeting was pushed back to this week. We will have another meeting next week.

Sophie plans to continue working on the code until the end of next week. Then, she will stop developing the project and spend the remaining time writing the report.

Some additional treats should be offered now and then including alcoholic beverages, perhaps once a week. These treats should not contribute to the nutrition calculations for the guests because they are not part of the general meal plan.

The program is offering regular fish meals, possible because it is minimising cost and emissions and finds fish to be preferable to other meats by these objectives. Guests may want more meat variety. Try requiring one serving of each major meat group each week.

Output a spreadsheet of the results for the operations people. Present the work to BAS during the summer.

The calculations have been performed for Twin Otter aircraft but the data show that the Dash 7 planes are used more frequently. Change calculations accordingly.

Next tasks

|  |  |  |
| --- | --- | --- |
| Task | Assignee(s) | Deadline |
| Add treats and drinks | Sophie | 14/6/22 |
| Including field campers’ rations | Sophie | 14/6/22 |
| Create a spreadsheet of results | Sophie | 14/6/22 |
| Include a variety of different meat types each week | Sophie | 14/6/22 |
| Include packaging waste data and minimise it. | Sophie | 20/6/22 |
| Change calculations from Twin Otter to Dash 7. | Sophie | 20/6/22 |

Next meeting

Agenda: Final review.

Attendees: Maria Fox, Sophie Turner.

Date: 14/6/22.

Time: 15:00.

Location: Zoom.