FAMINE & FOOD CRISIS FORECASTING CENTER

HACKATHON #1: YEMEN

Day 2: Understanding Crisis Data from Yemen

Springboard Grant – Tier 1

Sep 1, 2022 – August 31, 2023

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Day 2 Hackathon Agenda

- **9:00 - 9:30 am: Goals & Instructions**

Go over the goals and instructions for the next two days of the hackathon and make sure all teams have clear tasks and computers ready for a successful experience.

- **9:30 - 10:00 am: A workshop**

Reality of on the ground data collection for emergency assessments

- **10:00 am - 12:00 pm: Breakout Hacking Session**

Work in teams and participants tasked with exploring the OCHA data on famine in Yemen. Each team will brainstorm ideas, select data, and draft questions that will be used to guide the analysis of their team.

- **1:00 - 2:00 pm: Working Lunch & Project Review**

A working lunch during which participants review their progress with the Hackathon staff and make any necessary adjustments.

- **2:00 - 4:45 pm: Breakout Hacking Session**

Work in teams and finalize analysis plan for the OCHA data, produce analysis results, and report their findings through 1-3 summary slides.

- **4:45 - 5:00 pm: End of Day Summary**

Closing comments, with a compilation of summary slides and homework assignments (of course).

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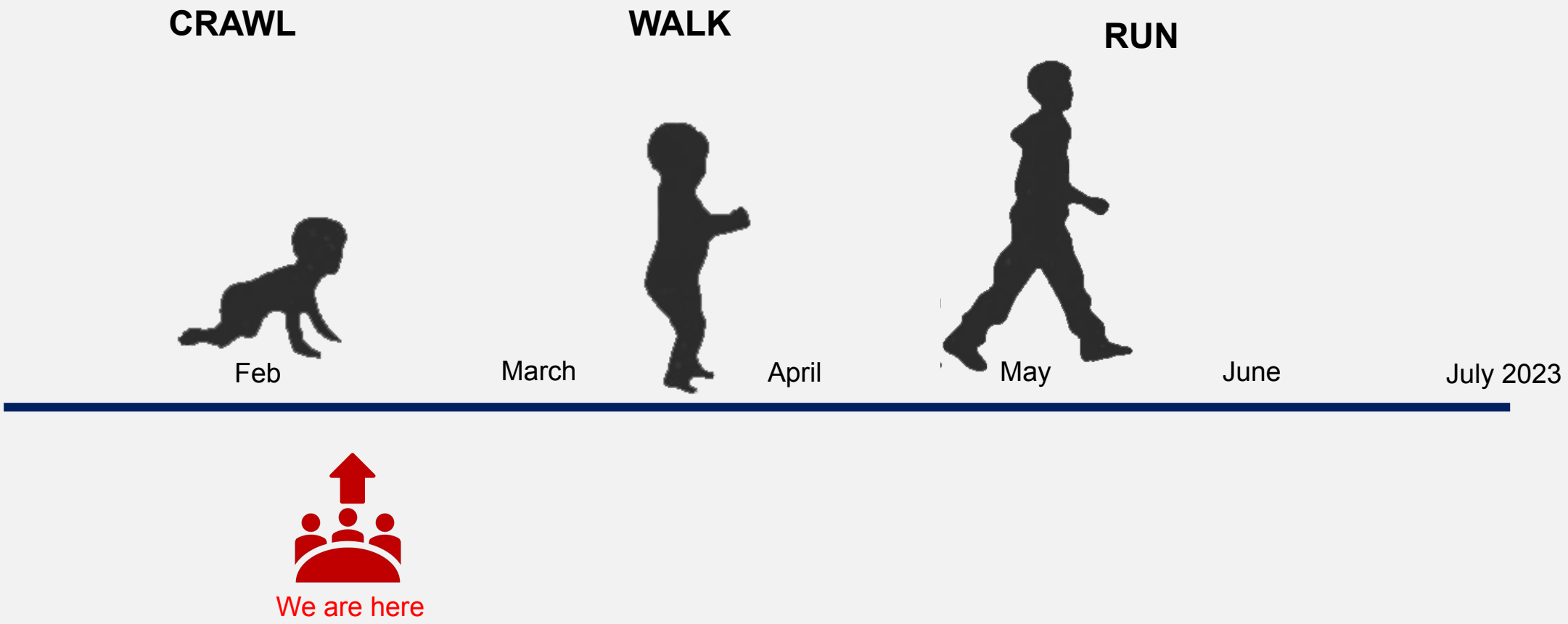
PREPARING YOUR COMPUTER FOR HACKATHON SUCCESS

KYLE MONAHAN MANAGER, DATA SCIENCE SERVICES

BINGJIE ZHOU DOCTORAL STUDENT, FRIEDMAN SCHOOL (NEDS)

Where you are going



Where you are going

Feb: First **hackathon**: Learn to explore data, create our first dynamic maps.

Ukraine

Yemen

May: Third **hackathon**: Compile **high-quality analysis and publishable figures**.

Feb | March | April | May | June | July 2023

Yemen

We are here

Mar: Second **hackathon**: Create questions with **impact**. Develop, design, and deploy **interactive dashboards, maps**. Apply data science.

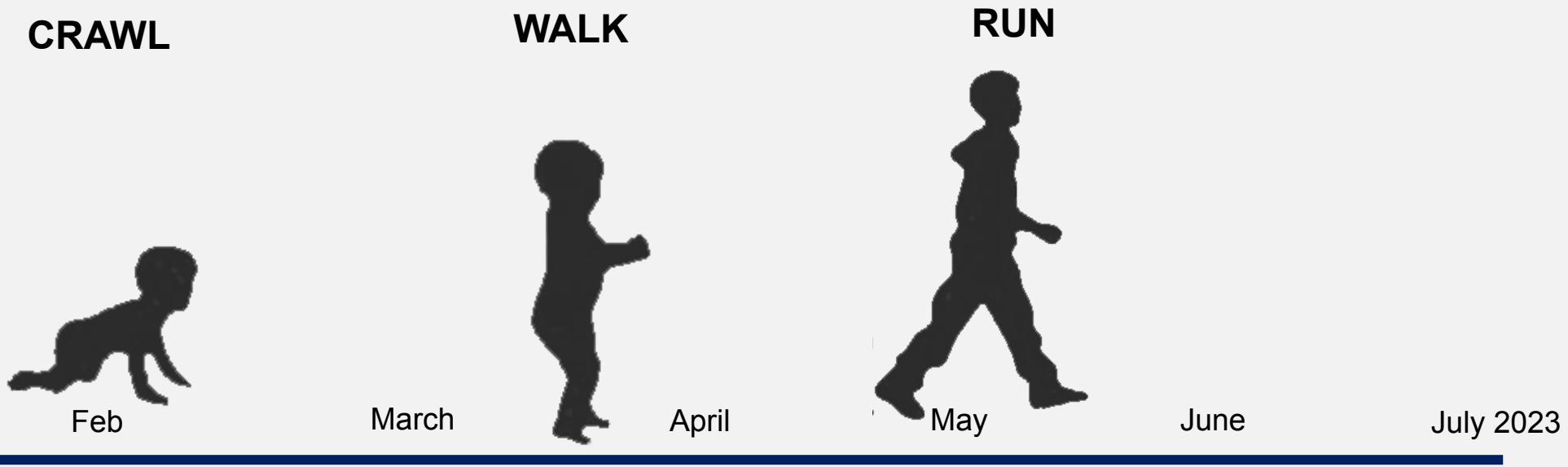
Ukraine

Yemen

South Sudan

June/July: Summary meeting to disseminate dashboards, hackathon materials, and review results.

Where you are going



Developing *mastery* in…

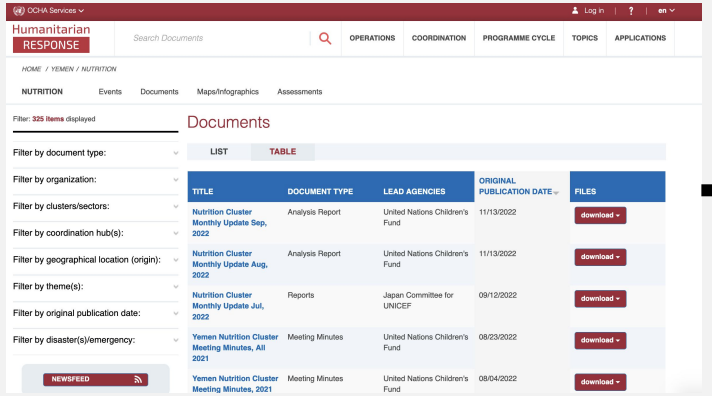
Geospatial time series famine data.

Steps for hackathon one

DATA

MERGING, UNDERSTANDING, CLEANING

PRODUCT



- Slides w/ tables, exploratory graphs & charts
- Dashboards
- Interactive maps
- An interactive map with video walkthrough

How do I access these software?

- The **TTS Remote Lab (Adobe)** provides access to graphic or data-intensive software such as Adobe Creative Cloud suite, GIS, ENVI, SAS, SketchUp Pro, etc
  - Access the TTS Remote Lab (Adobe) on a **Windows Computer**
  - Access the TTS Remote Lab (Adobe) on a **Mac Computer**
- The **TTS Virtual Lab (VDI)** provides access to general computing software and resources. No Adobe Creative Cloud suite, GIS, etc.

For inquiries regarding which remote solution is right for you, please contact DataLab-Support@elist.tufts.edu

How can I prepare for the hackathon?

You can just arrive, no need to prepare, however, be sure to check out the suggested pre-trainings if you want to enhance your technical skills!

- R
  - Intro R
  - Data visualization in R
- Python
  - Intro to Python
  - Scientific Computing with Numpy
  - Getting started with Python Data Analysis
- Geospatial
  - Raster analysis & remote sensing data in Python
  - Geospatial Python analysis

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Feinstein International Center

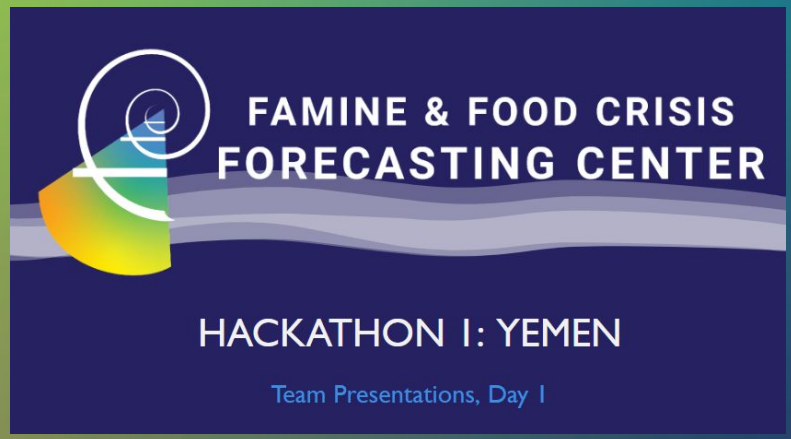
REALITIES OF DATA COLLECTION

MERRY FITZPATRICK ASSISTANT PROFESSOR, FEINSTEIN INTERNATIONAL CENTER

Content

HACKING GROUPS!

- Read through Glossary
- Explore dataset
- Create timeline of events relevant to your research question
- Review Gantt chart
- Create visualizations
  - Is there missing data?
- <u>Complete slide with your findings!</u>



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Team Presentations, Day 2