



GREATER HORN OF AFRICA REGIONAL KNOWLEDGE SHARING MEETING



**HUMANITARIAN-DEVELOPMENT-PEACE (HDP)
COHERENCE IN FOOD CRISIS CONTEXTS**



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REGIONAL INTEGRATION




Technology for Data Sharing: Options for IPs Across HDP Pillars

May 10, 2023

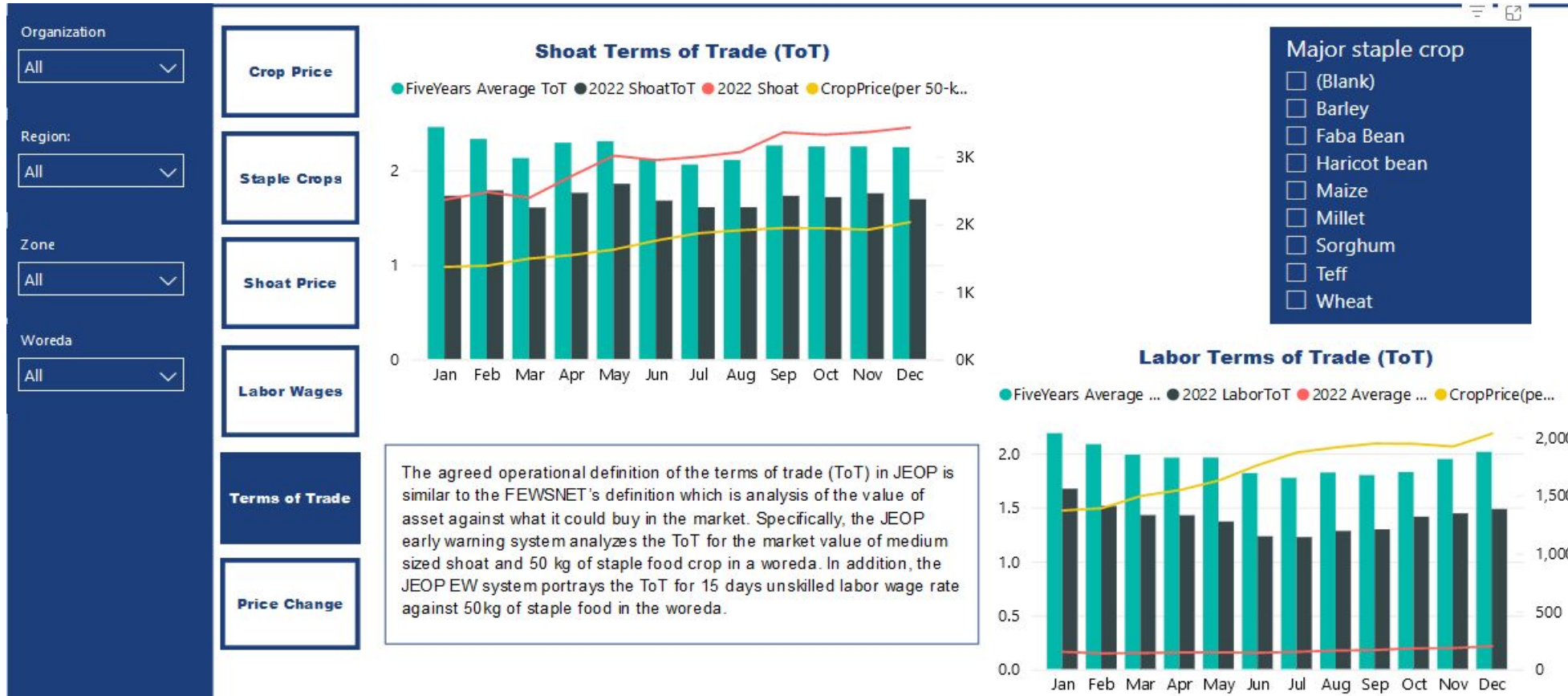




**Ashenafi Alemu: Program
Manager, Early Warning Systems,
CRS, JEOP**



JEOP Early Warning System Dashboard



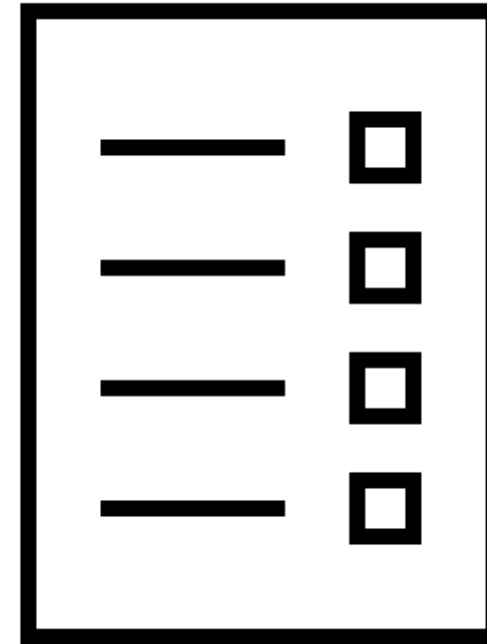
Process Steps When Selecting the Technology



- Be clear with needs. Our needs were:
 - Introducing automated analysis software
 - Interactive visualizations
 - A software allowing linkage with excels, ArcGIS, and website
 - Accessible
 - User friendly
- Exploring technologies with ICT4D expert
- Testing technologies
- Piloting


Considerations Made When Selecting Technologies

- How much does it cost?
- Is the cost fair to the value the technology returns?
- Is the software company prepared to support?
- Can it be implemented by available skill within the organization?
- Is it customizable to meet our need?
 - **Power BI technology got green light when evaluated with the above criteria





PROCESS STEPS WENT INTRODUCING THE TECHNOLOGY

- Training ICT4D staffs
 - CRS international ICT4D staff trained Ethiopia based ICT4D staff
 - ICT4D and program staff designed visualization together
 - First product reviewed and tested by key stakeholders
 - The product officially launched
 - Stakeholders trained on how to use the power BI dashboard
 - The technology always advertised in monthly early warning report, which is shared for wide stakeholder
 - Stakeholder activity on the dashboard tracked and those who didn't signed for a while provided closer capacity building support
- 

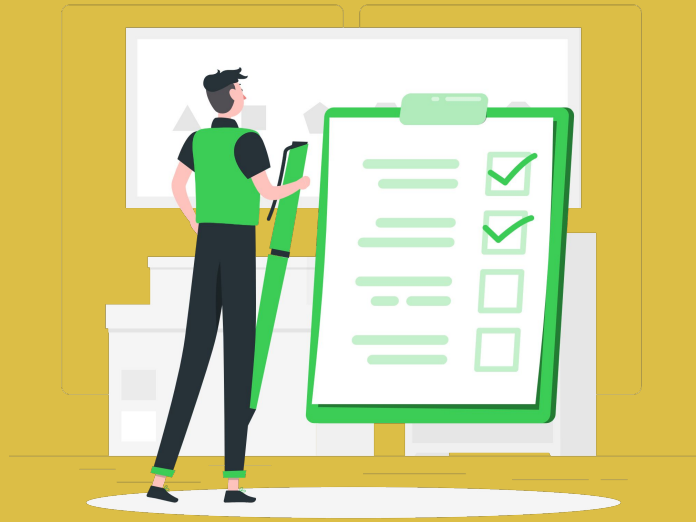


Options for Data Sharing

Roger Hunwicks: Chief Data Architect, AIR, FEWS NET



Agenda



1. Technology Options
2. How to choose
3. Other Considerations



Technology Options

Technology Options

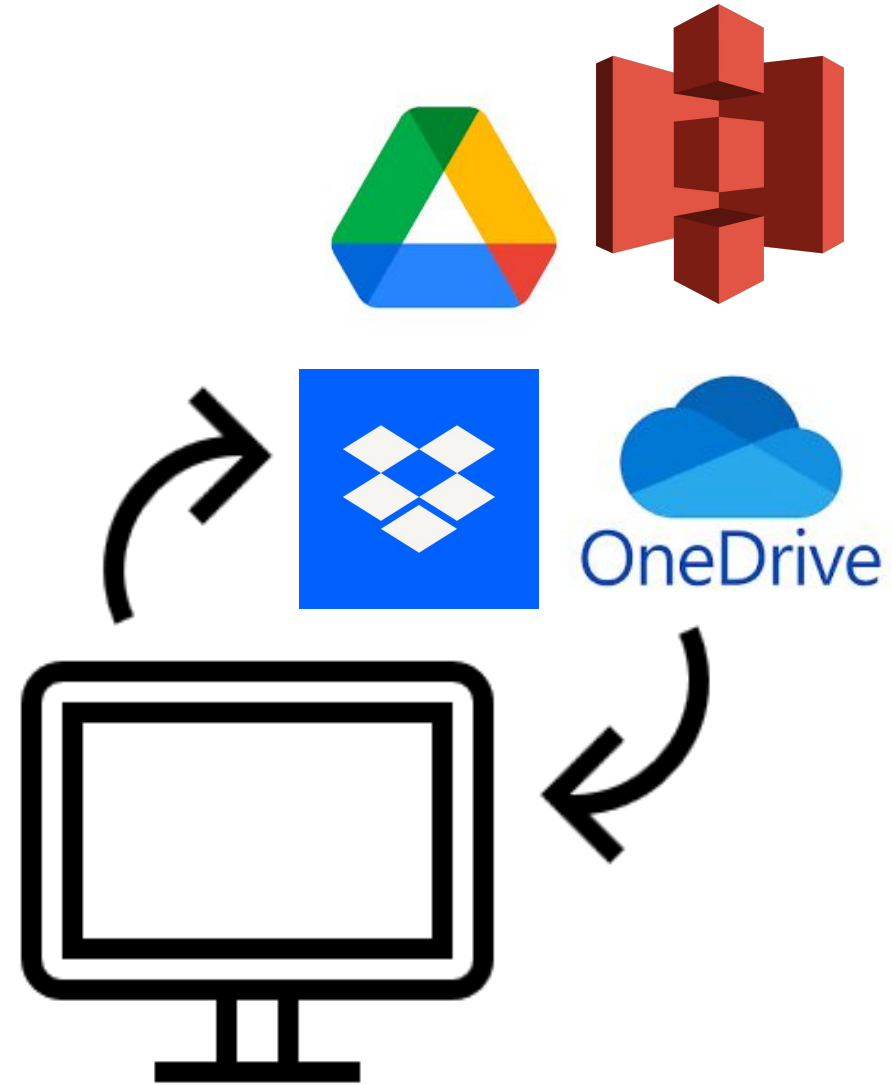
- Cloud Storage, e.g. Dropbox, Google Drive, Microsoft OneDrive,
- Public Data Portal, e.g. HDX
- “Off the shelf” data archive, e.g. CKAN
- Commercial Data Portal, e.g. Socrata
- Enterprise collaboration software, e.g. Microsoft SharePoint or Google Sites
- Data Visualization Platform, e.g. Tableau
- Build your own website or data portal, e.g. FEWS NET Data Explorer





Cloud Storage

- Examples: Dropbox, Google Drive, Microsoft OneDrive, Amazon S3
- Pros:
 - Easy to set up and use
 - Accessible from anywhere
 - Scalable storage options
- Cons:
 - Security and privacy concerns
 - Limited customization
 - Potential costs for larger storage needs



Public Data Portal

- Example: HDX (humdata.org), DDL
- Pros
 - Free
 - High visibility
- Cons
 - Public data only



“Off the Shelf” Data Portal

- Examples: [CKAN](#), [DSpace](#)
- Pros
 - “Free”
 - Customizable
- Cons
 - Probably requires some IT capabilities



Commercial Data Portal

- Examples: [Socrata](#), [ArcGIS Hub](#), [Datopian](#)
- Pros:
 - Easy to use
 - Support
- Cons:
 - May be expensive



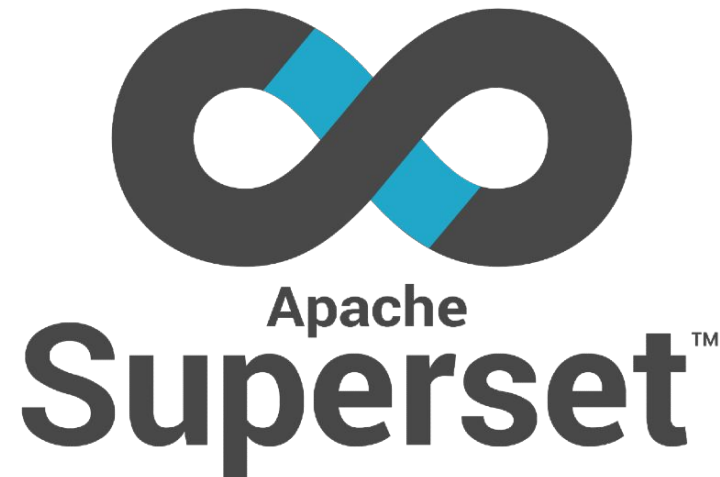
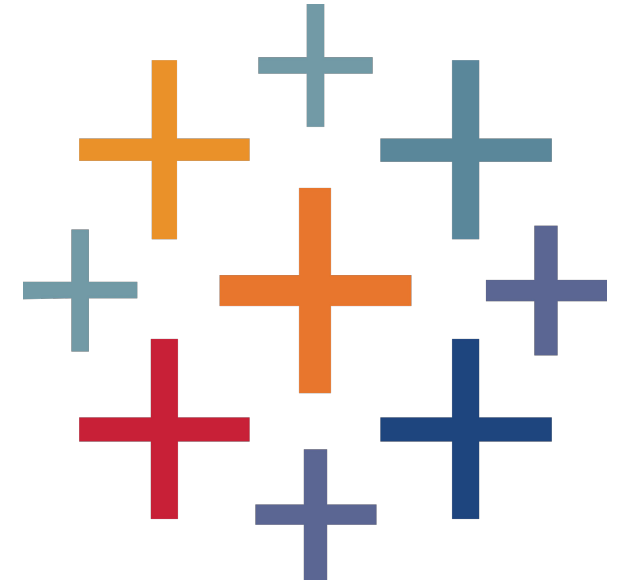
Enterprise Collaboration Software

- Examples: Microsoft SharePoint or Google Sites
- Pros:
 - Customizable features and branding
 - Flexible
- Cons:
 - Development and maintenance costs



Data Visualization Platform

- Examples: Tableau, Superset, Microsoft Power BI
- Pros:
 - Visually appealing data presentation
 - Interactive and engaging
 - Supports various chart types and formats
- Cons:
 - Learning curve for advanced features
 - Limited customization in some cases
 - Potential costs for premium versions



Build Your Own

- Examples: FEWS NET Data Warehouse and Data Explorer
- Pros:
 - Completely customizable features and branding
 - Advanced features specific to your use case
- Cons:
 - Development and maintenance costs
 - Infrastructure costs



FEWS NET





How to Choose



How to Choose

- Contract / Grant / Organization Requirements
- Availability of technical support
- Sustainability
- Data Privacy and Security
- Data Update Frequency
- Flexibility
- Other Functionality





Other Considerations

Other Considerations

- Personally Identifiable Information (PII)
 - Share redacted data
 - Have a documented process
- Metadata Standards
 - Use agreed standards where possible
 - Think about what your data will be combined with
- Machine Readable Formats
- Data Documentation



Closing and Key Takeaways

Thank you!



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