

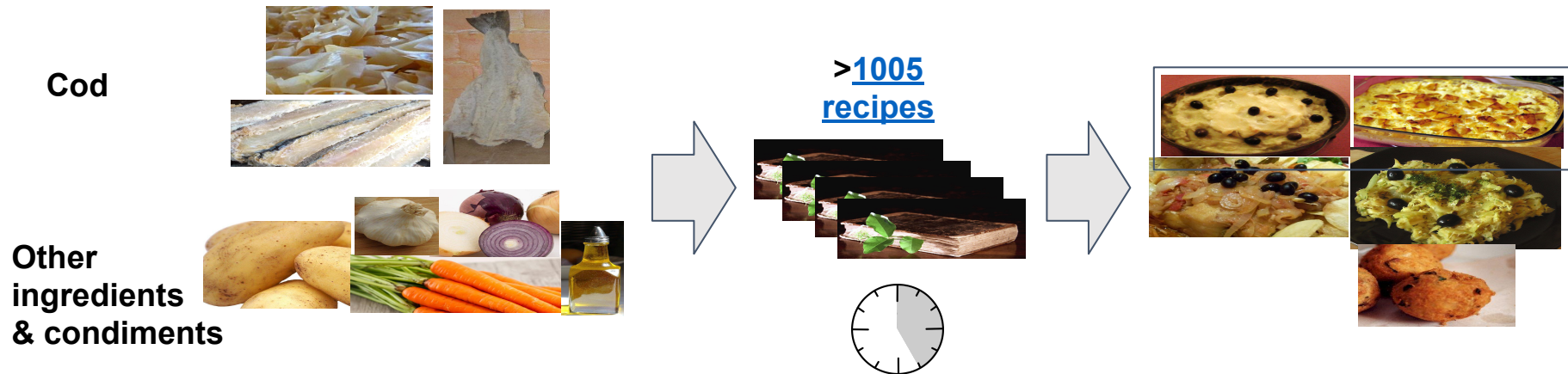
What should be the characteristics of *online bioinformatic platforms in* LifeWatch ERIC?

What should be the characteristics of *online metabarcoding bioinformatic analysis platforms* in LifeWatch ERIC?

Shared notes/whiteboard:

<https://tinyurl.com/s4y3zxo>

Metabarcoding analysis pipelines



Metabarcoding analysis pipelines

Inputs

Analysis/computational methods

Outputs

Cod



Other ingredients & condiments



>1005
recipes



Metabarcoding analysis pipelines

Inputs

Analysis/computational methods

Outputs

Cod

sequence data



Other ingredients & condiments

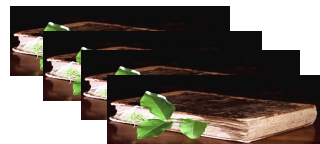


Reference database

Metadata

...

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recipes



Main Topics

- Metabarcoding analysis pipelines
 - Inputs
 - Analysis methods/pipelines
 - Outputs
 - Data sharing
- Standardization!Standardization!...

Presentation

Integration of metabarcoding bioinformatic pipelines

Metabarcoding analysis pipelines

- Inputs
 - Sequence data
 - Support heterogeneous sources?
 - Different sequencing platforms
 - Different protocols
 - File format?
 - E.g., fastq(.gz)? BAM? CRAM? Others?
 - ...

Metabarcoding analysis pipelines

- Inputs
 - Reference databases
 - Which ones?
 - Public only? Genbank, ...
 - Semi-public or private? Bold,...
 - Custom databases
 - Generic vs specific?
 - File formats?
 - ...

Metabarcoding analysis pipelines

- Inputs
 - Metadata?
 - File formats?
 - Which ontologies?
 - Minimum data requirements?
 - Use/expand existing standards?
 - [MIxS](#)
 - ...

Metabarcoding analysis pipelines

- What characteristics should the analysis protocols have?

Metabarcoding analysis pipelines

- What components should the analysis protocols include?
- Can we agree on a set of tools/pipelines? How to achieve this?
- How many parameters would the users be able to change?

Metabarcoding analysis pipelines

- Outputs
 - What should contain and what format?
 - E.g. OTU/ASV table
 - Web reports?
 - Available for a time period? Downloaded?...

Metabarcoding analysis pipelines

- Data sharing policy
 - Input data
 - Output data
 - Uploaded data and results
 - Private/Public/Embargo

Metabarcoding analysis pipelines

- Next steps?

Coffee break