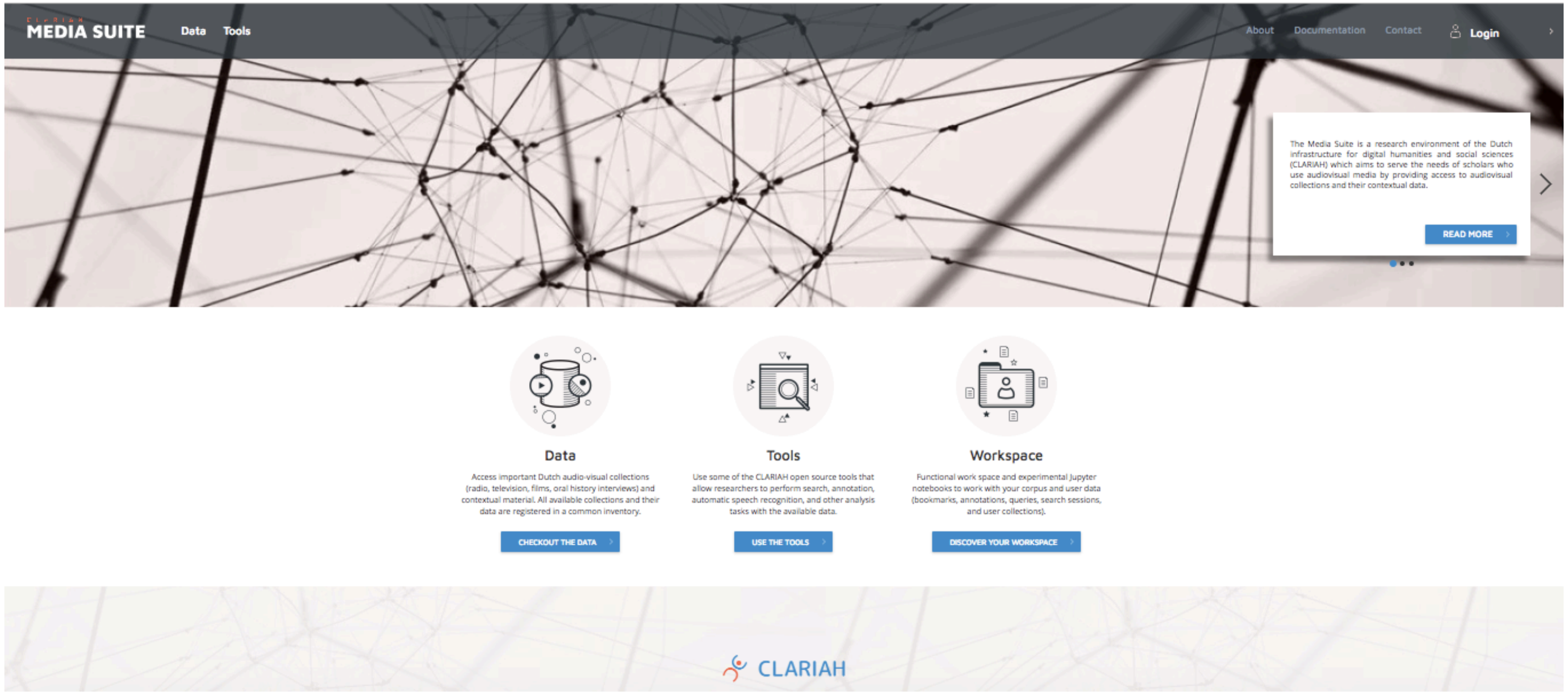
Provenance in WP5's Media Suite

CLARIAH Provenance workshop

DANS

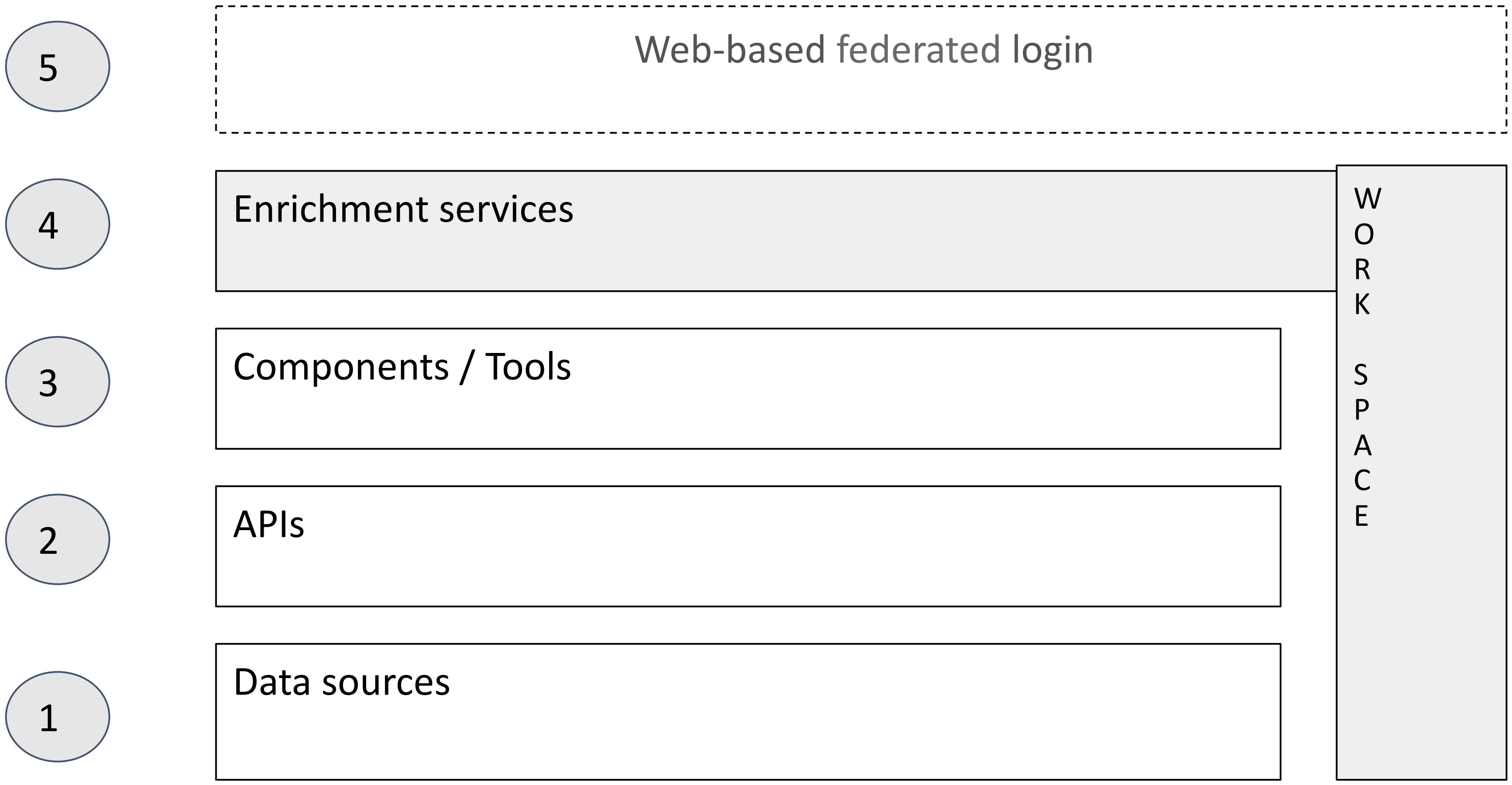
September 4, 2018

The CLARIAH Media Suite: http://mediasuite.clariah.nl/



- A high-level tool (user-friendly research environment) built in a modular/sustainable approach
- Integrates data and tools for both novice users and advanced users (via Jupyter notebooks)
- We are not yet actively implementing provenance solutions based on “formal” models/solutions, but rather respecting the principles of provenance information (i.e., “source critique” in scholarly terms): transparency and traceability (location of the sources, and of changes made to the sources on the process of providing access).

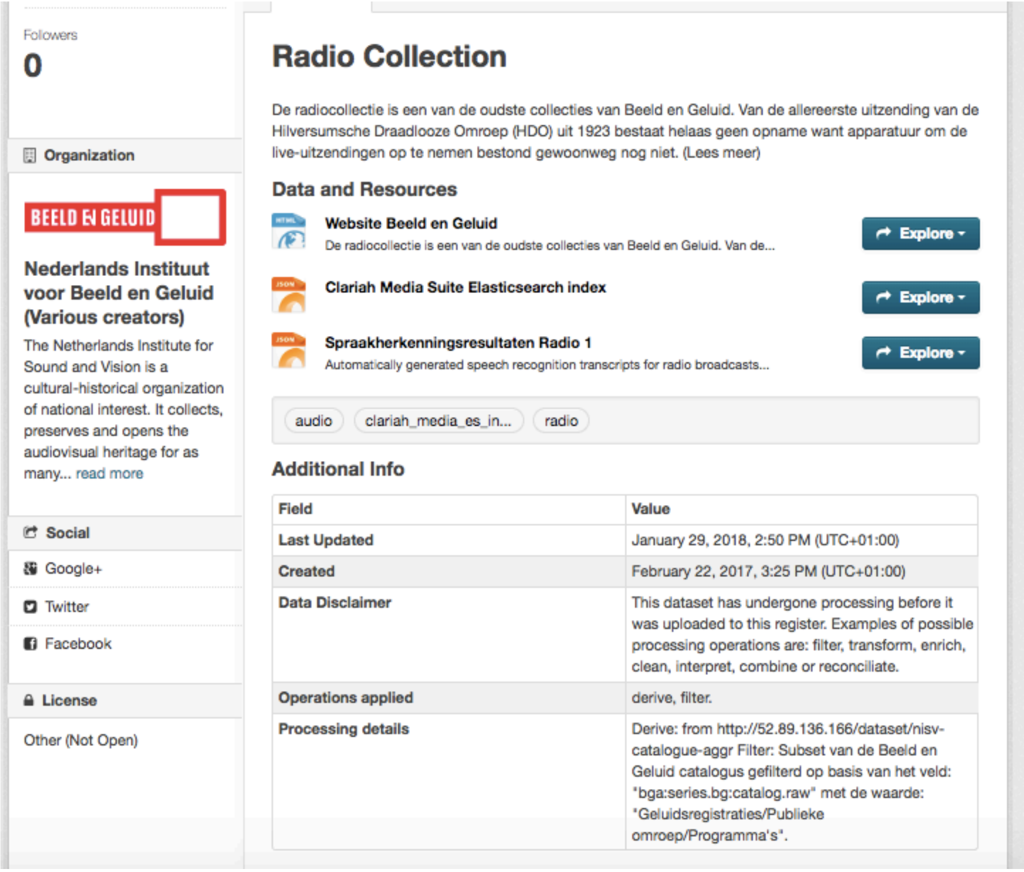
Media Suite’s building blocks



Source: Ordelman, R., Martínez Ortíz, C., Melgar Estrada, L., Koolen, M., Blom, J., Melder, W., … Noordegraaf, J. (2018). Challenges in Enabling Mixed Media Scholarly Research with Multi-media Data in a Sustainable Infrastructure – DH2018. Presented at the Digital Humanities 2018, Mexico. Retrieved from https://dh2018.adho.org/en/challenges-in-enabling-mixed-media-scholarly-research-with-multi-media-data-in-a-sustainable-infrastructure/

Challenges in respecting provenance and integrating provenance information

1. Data sources:
   - CKAN registration
     - Human-readable descriptions of collections/data and the content providers
     - Human-readable descriptions and conversion files explaining data processes

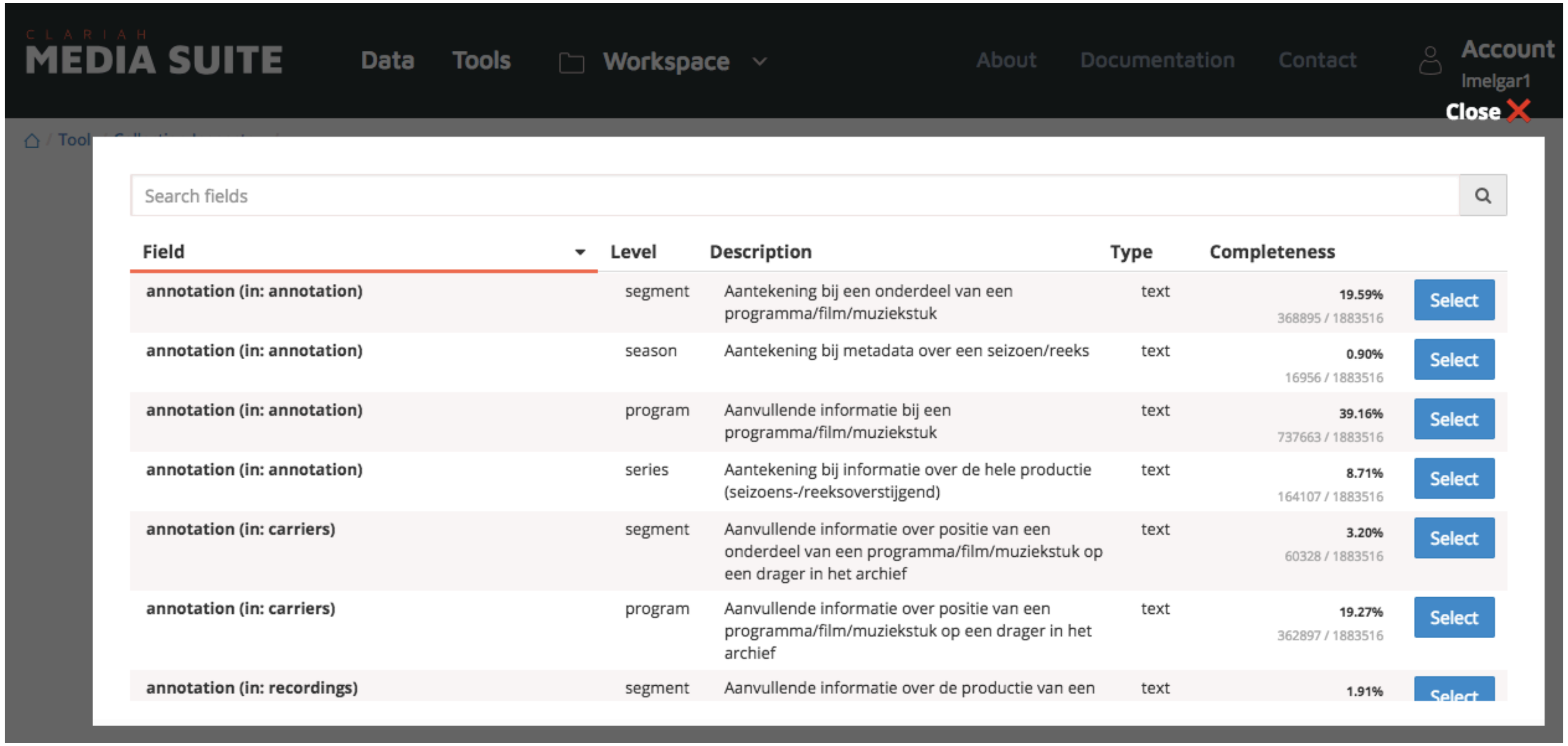


Challenges in respecting provenance and integrating provenance information

1. Data sources

Currently: "user-friendly" way of respecting provenance information:

- Respecting/offering original metadata (by content provider)
- Following the principles of data transparency: visualization of metadata completeness
- Providing metadata dictionaries



Field	Level	Description	Type	Completeness	
annotation (in: annotation)	segment	Aantekening bij een onderdeel van een programma/film/muziekstuk	text	19.59% 368895 / 1883516	Select
annotation (in: annotation)	season	Aantekening bij metadata over een seizoen/reeks	text	0.90% 16956 / 1883516	Select
annotation (in: annotation)	program	Aanvullende informatie bij een programma/film/muziekstuk	text	39.16% 737663 / 1883516	Select
annotation (in: annotation)	series	Aantekening bij informatie over de hele productie (seizoens-/reeksoverstijgend)	text	8.71% 164107 / 1883516	Select
annotation (in: carriers)	segment	Aanvullende informatie over positie van een onderdeel van een programma/film/muziekstuk op een drager in het archief	text	3.20% 60328 / 1883516	Select
annotation (in: carriers)	program	Aanvullende informatie over positie van een programma/film/muziekstuk op een drager in het archief	text	19.27% 362897 / 1883516	Select
annotation (in: recordings)	segment	Aanvullende informatie over de productie van een	text	1.91%	Select

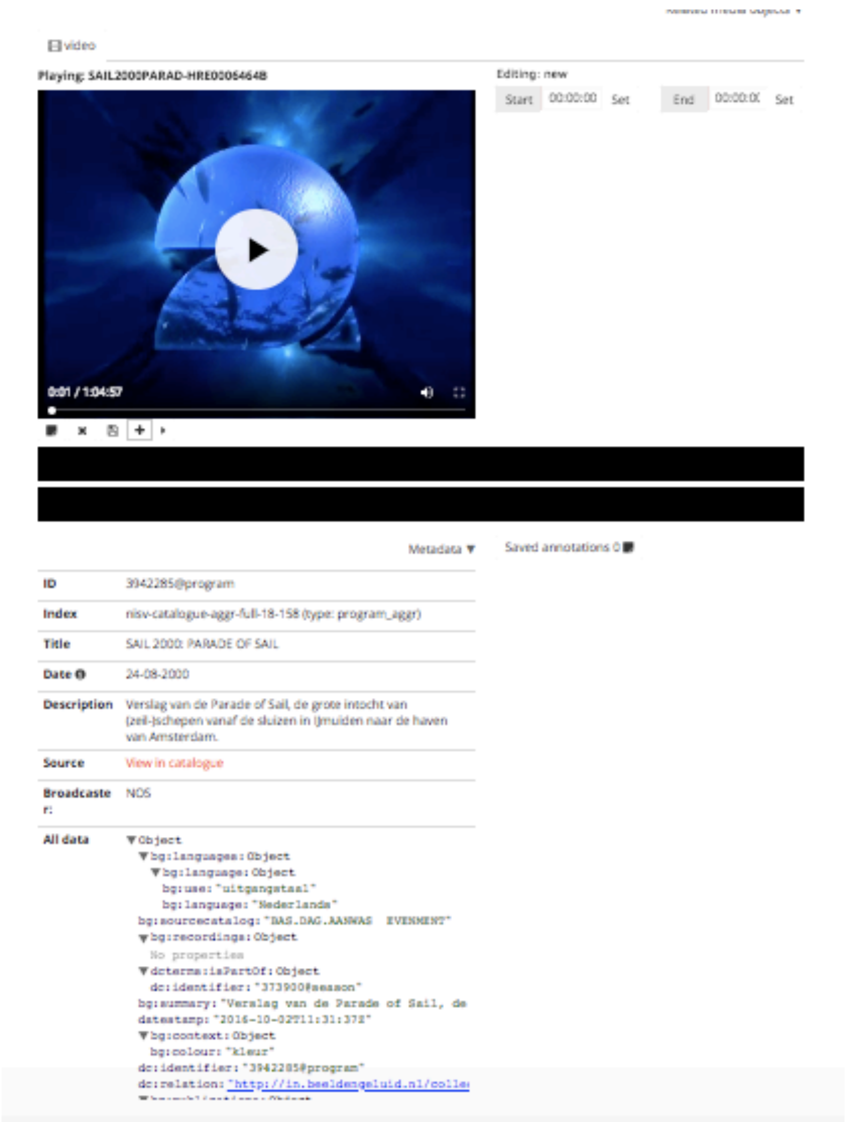
Challenges in respecting provenance and integrating provenance information

3. Components/Tools:

    Currently: Making easier for users to trace metadata back

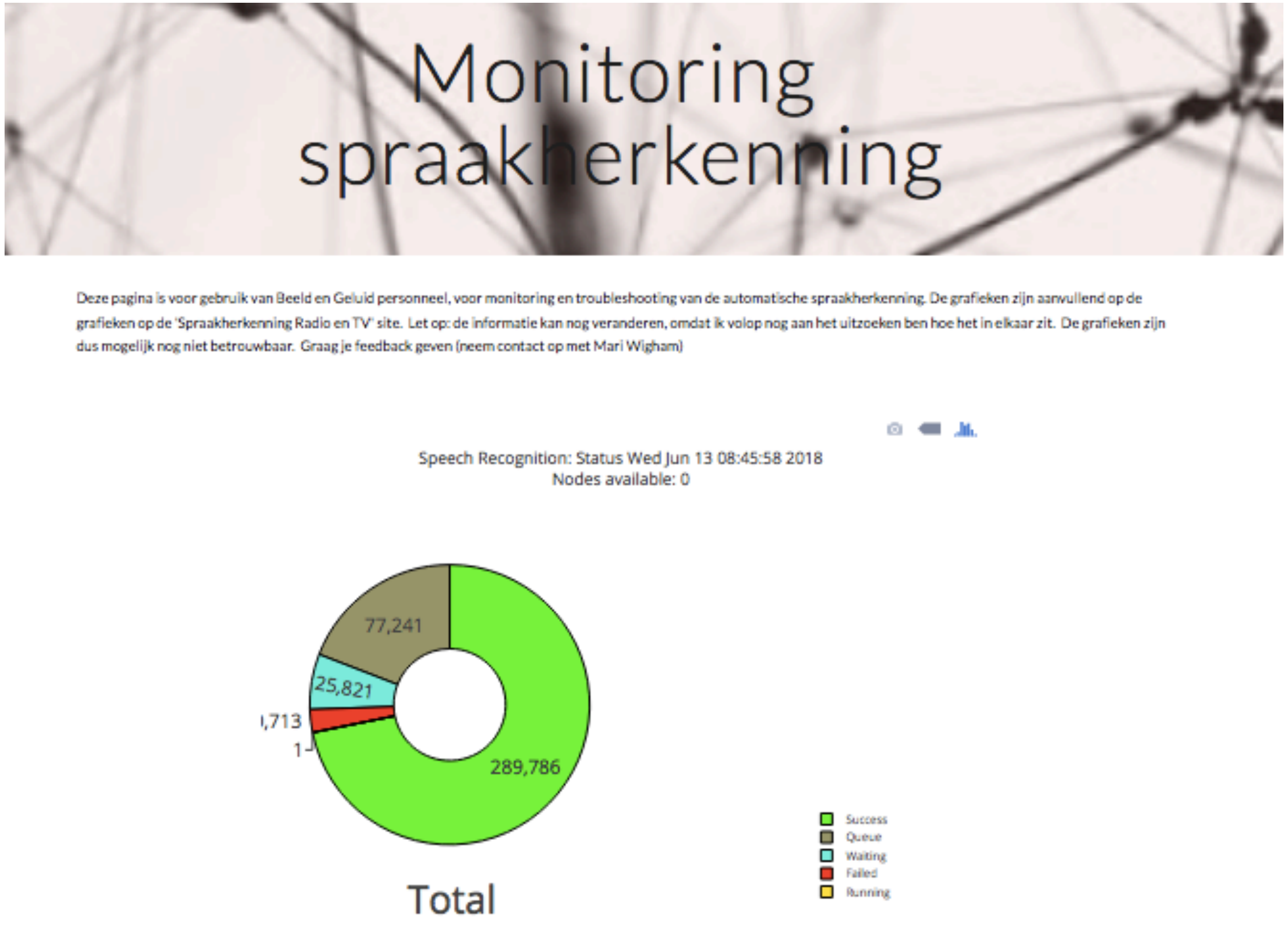
    - Links to original sources
    - Metadata presentation in a transparent way

    Future work: encode provenance information formally (depending on CLARIAH common approach)



Challenges in respecting provenance and integrating provenance information

4. Enrichment services:
   - Currently: we provide live statistics/ASR work on a separate web site,
   - Future work: analyze how to integrate provenance information in the ASR metadata



Challenges in respecting provenance and integrating provenance information

5. Login/Authentication:
   - Working together with WP2 on an “authenticatie route”
6. Workspace
   - Currently: storing user annotations and saved queries
   - Future work: deciding on what data from the users should be stored for keeping provenance information in user annotations (and also for log analysis)