

AI4EU TGB Meeting

14.1.2022

- Short Update on Platform Status (Martin)
- Answers to Stairwai Questions from last TGB (Martin)
- CMS Submission Process Q&A (Alessandro)
- Open Discussion: ICT-48/49 collaboration and integration

Next TGB: 04.03.22 10:00-12:00 CET

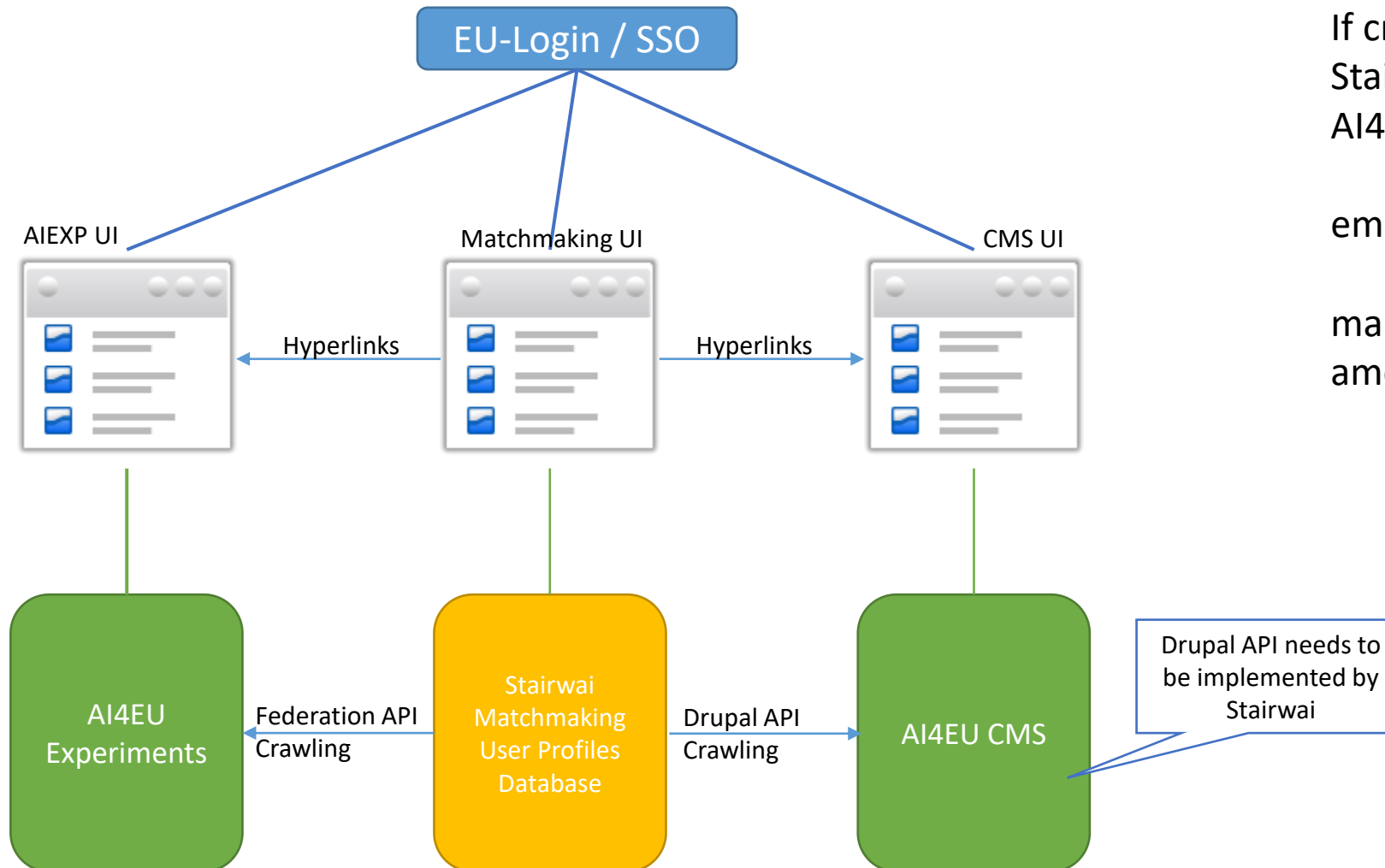
- EU-Login is now integrated with AI4EU Experiments!
- Platform Operating funded by AI4Media (including CMS, Dev servers)
- We have now 266 models in the AI4EU Experiments catalog
 - OpenML Datasets and Open Calls were big contributors
- CMS will get Matomo analytics
- Eclipse Graphene is moving ahead (IP-Review)
- IDS Connector (part of Gaia-X specifications)
- AI4EU Experiments: The main task for Q1 will be the AI Playground

Answers to Stairwai Questions 1



- User profiles contain only userid, name and email (for both: CMS and AI4EXP)
 - we might need to add a services to map email-addresses to userids
- SSO Documentation: <https://citnet.tech.ec.europa.eu/CITnet/confluence/display/IAM/ECAS+for+Developers>
 - Documentation
 - Examples for ECAS, SAML, OpenID
 - apply for access with EC-IAM-SERVICE-DESK@ec.europa.eu
- Access to Model Data, Asset Data, Organizations, Education Data...
 - Crawling: **everything** is available without login
 - AI4EU Experiments Federation REST-API (Eric has access)
 - AI4EU Github: <https://github.com/ai4eu>
- GDPR: UNIBO/Stairwai already makes the platform Terms&Conditions

Answers to Stairwai Questions 2



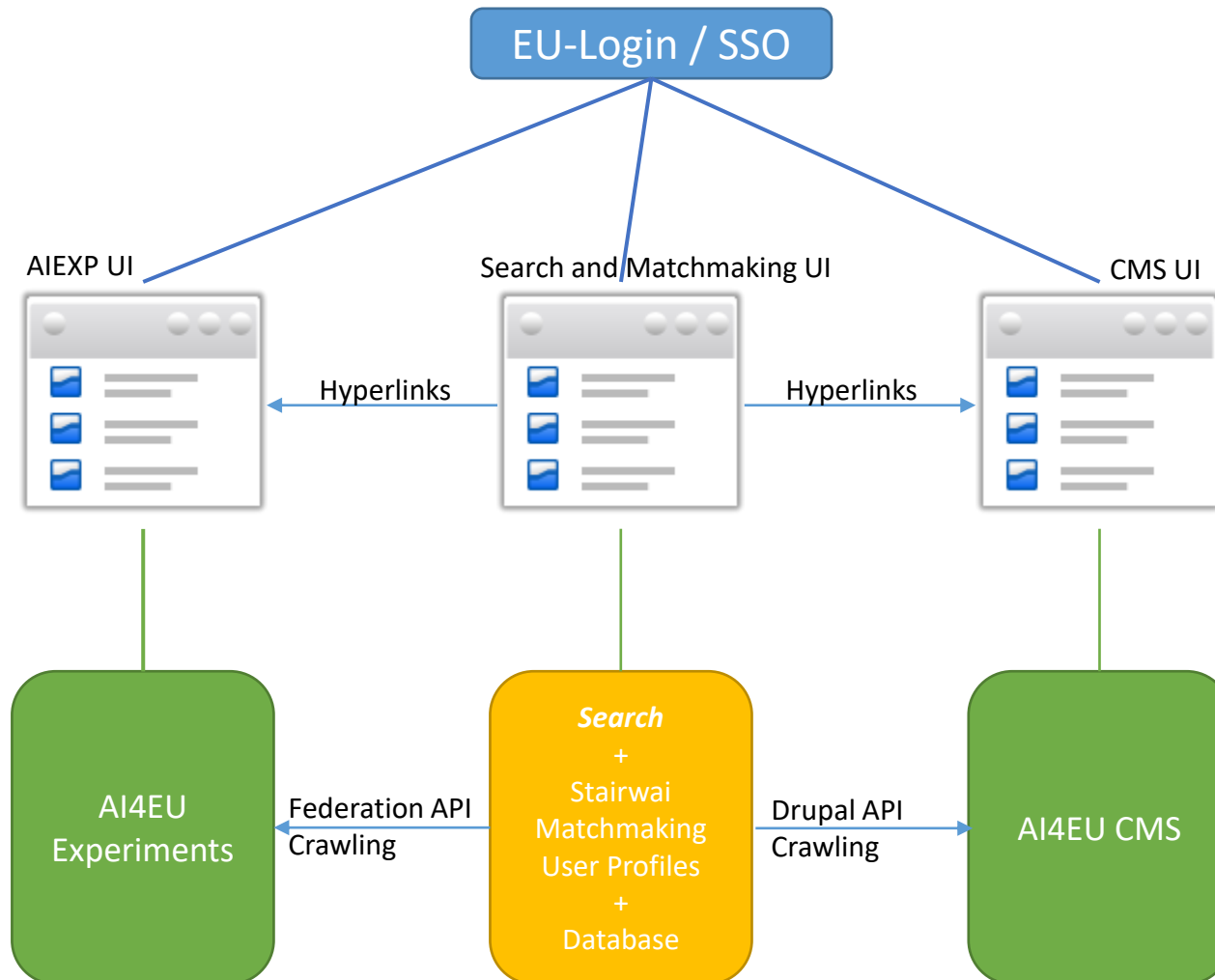
If crawling is used with own Stairwai profile DB, no further AI4EU modules needed

email-address identifies users

map email-address and userid among systems?

Answers to Stairwai Questions 3

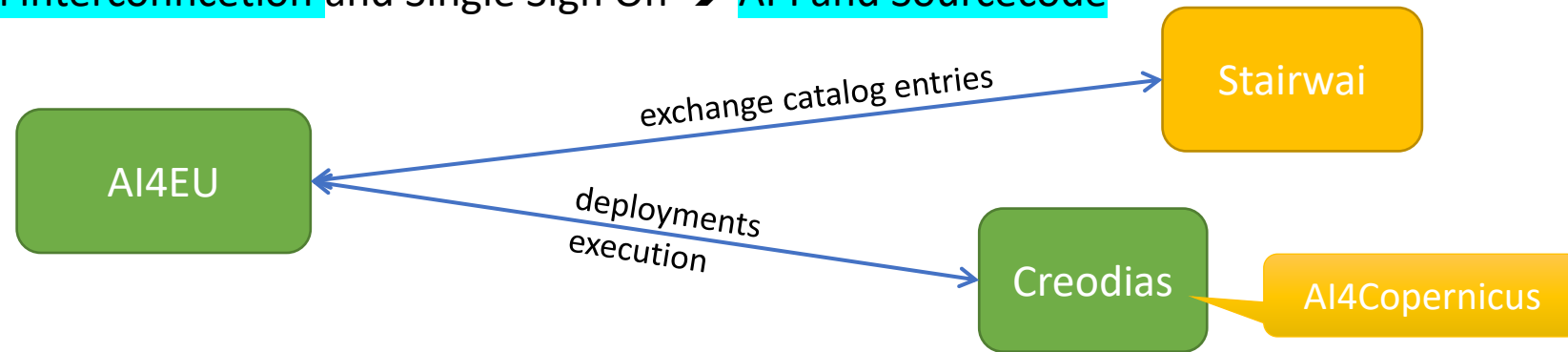
To integrate Matchmaking with Search seems to be a natural fit



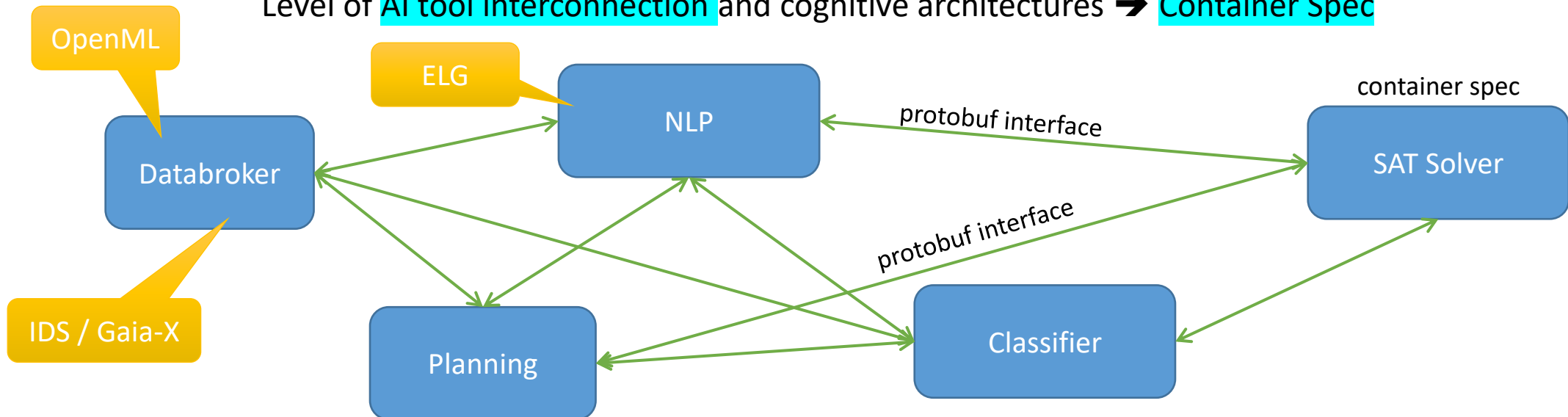
Levels of Interoperability / Interconnects



Level of platform interconnection and Single Sign On → API and Sourcecode



Level of AI tool interconnection and cognitive architectures → Container Spec



AI Tools Interoperability / Interfaces

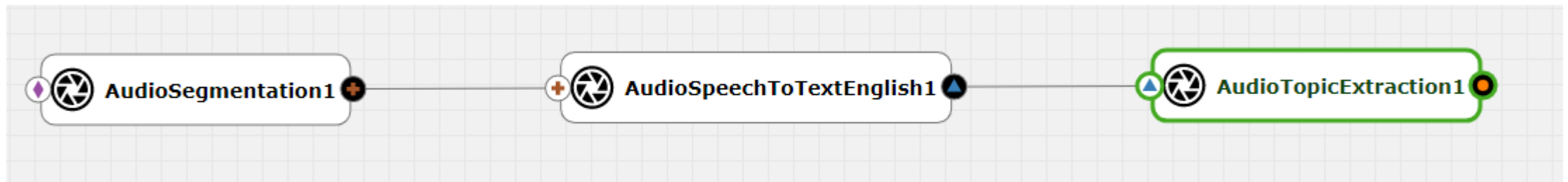
Based on the AI4EU Experiments Container Specification:

- Docker container
- with protobuf/grpc public interface
- optional WEB-UI



Establish common interfaces for areas of AI:

- offer choice of models for tasks
- knowledge transfer (best practices)
- even Hybrid-AI



SIGNATURE

```
syntax = "proto3";

message AudioFileJob {
  string job_uuid = 1;
  int64 priority = 2;
  string file_name = 3;
  string work_dir = 4;
  int64 length = 5;
}

message AudioSegment {
  string job_uuid = 1;
  string segment_uuid = 2;
  string segment_file = 3;
  string work_dir = 4;
  int64 index = 5;
  int64 length = 6;
  int64 start_time = 7;
  int64 end_time = 8;
}

service AudioSegmentation {
  rpc getNextAudioSegment(AudioFileJob) returns(AudioSegment);
}
```

SIGNATURE

```
syntax = "proto3";

message AudioSegment {
  string job_uuid = 1;
  string segment_uuid = 2;
  string segment_file = 3;
  string work_dir = 4;
  int64 index = 5;
  int64 length = 6;
  int64 start_time = 7;
  int64 end_time = 8;
}

message SegmentText {
  AudioSegment segment = 1;
  string text = 2;
  string language = 3;
}

service AudioToSpeech {
  rpc textToSpeech(AudioSegment) returns(SegmentText);
}
```

SIGNATURE

```
syntax = "proto3";

message AudioSegment {
  string job_uuid = 1;
  string segment_uuid = 2;
  string segment_file = 3;
  string work_dir = 4;
  int64 index = 5;
  int64 length = 6;
  int64 start_time = 7;
  int64 end_time = 8;
}

message SegmentText {
  AudioSegment segment = 1;
  string text = 2;
  string language = 3;
}

message TextTopics {
  AudioSegment segment = 1;
  repeated string topics = 2;
}

service AudioTextTopics {
  rpc extractTopics(SegmentText) returns(TextTopics);
}
```


- AI4EU Experiments Source Code on Github
- Access to AI4EU Experiments development system (on demand)
 - supporting remote development
- Access to CMS source code (on demand)