Development of a Web-Based System for Managing Data Related to Artificial Insemination Centers in Ethiopia

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Background

- Web-based system designed to manage data in five Artificial Insemination (AI) Centers

  - Data collection, processing, and generation of report

  - System will serve to replace manual-based bull basic data, semen quality, semen inventory, AI service and calving related data in AI centers and dairy farms
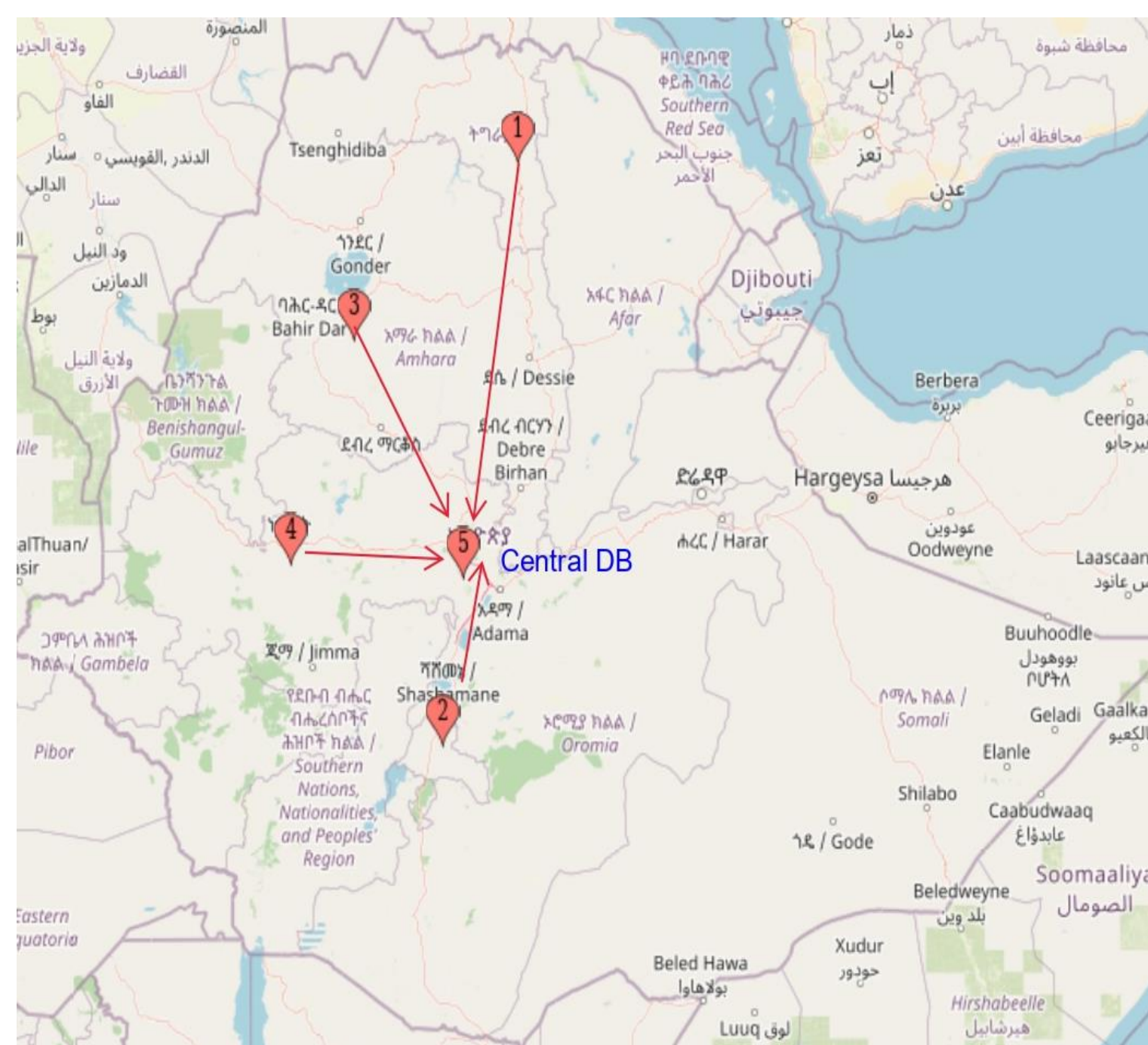
Objectives

- Unify and improve data management of AI centers

- Develop tracing system of AI service in country

- Generate data, reports and feedback to decision makers , AI centers experts and researchers
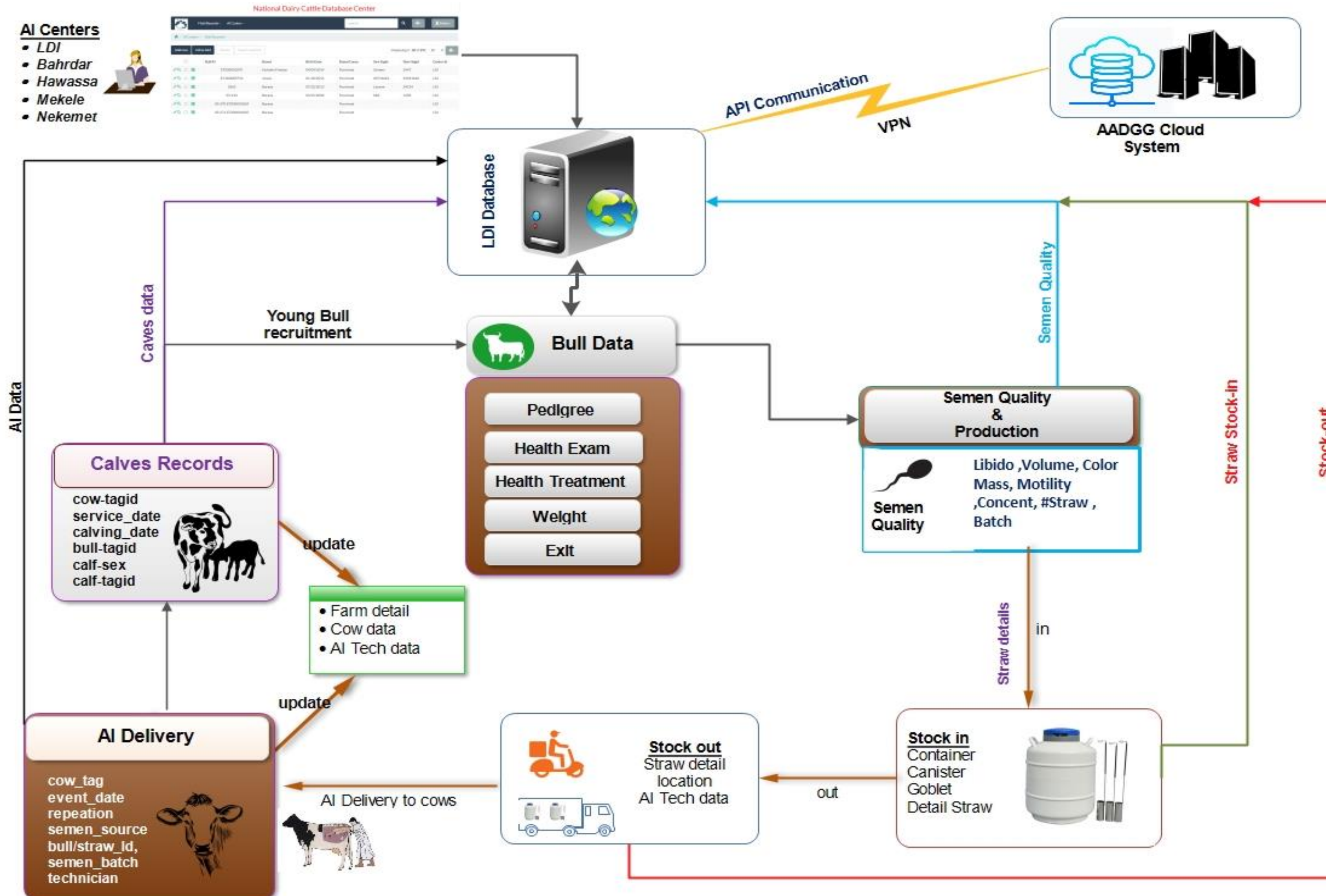
Achievements

- Harmonized platform system is created for AI centers

- Traceability of AI efficiency at the farm level is now possible

- Field AI related data is linked with the national dairy cattle database system

- Data, reports , feedback and evidence for goal dairy sector improvement.

- Cross-platform communication with AADGG system

Methods

- Language PHP ,JavaScript, Python
- Database MySQL
- User Interface :HTML, AJAX, JQUERY
- Database Sync: API

Conclusion

The system able to capture, processing, and generate AI related data for all AI centers bringing harmonized dataset, improved economic ramifications, and contribution on evaluation of national dairy breeding program.

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