# Objectives and Key Results Draft for Context Engine Team 2023

## Change Tracking

|  |  |  |
| --- | --- | --- |
| Version 1.0 Draft 1 | 12 Dec 2022 | Carl Hagmann |
| Version 1.0 Draft 2 | 13 Dec 2022 | Benjamin Cortens |
| Version 1.0 Draft 3 | 14 Dec 2022 | Carl Hagmann |
|  |  |  |

**Ultimate Objective:** Generate value with Cognixion’s language generation technology stack by establishing and executing research and development.

### Objective 1: Build high-quality language processing and generating software components

**KR1:** Deliver word & phrase completion model(s) and architecture design to Software Engineering that offers similar capabilities to the ASHA language system with improved reliability and accuracy.

**KR2:** Achieve communication rates and accuracy that exceed existing AAC language systems

**KR3:** Create a basic AWS API infrastructure and documentation for training and fine-tuning models

### Objective 2: Develop lines of research at the edge of what is possible (under O-2)

**KR1:** Patentreview board approves at least one patent.

**KR2:** Steering committee reviews and approves research roadmap.

**KR3:** Execute research roadmap on time.

**KR4:** Experimental plans developed for conducting speculative hi-risk research.

**KR5:** List of potential high value research topics identified (with special interest paid to those which will involve collaboration with Biosignals research team).

### Objective 3: Evangelize Cognixion technology with collaboration and outreach (O-14)

**KR1:** Submit at least one paper in 2023 in an ML journal with academic research collaborator

**KR2:** Publish white paper and give presentation of new NLG/NLP technology internally

**KR3:** Attend (or present at) at least 1 major conference on Natural Language Generation / Linguistics / Neurotech / AAC

**KR4:** Identify external research opportunities, secure a funded collaborator for 2024, and develop research papers

### Objective 4: Grow a team that fosters collaboration, stewardship, and diversity (O-4)

**KR1:** Fully document notebooks and SOPs for non-technical staff to use, owned jointly by all members of Context Engine team. This includes excellent documentation of tools and models as well as on-boarding resources.

**KR2:** Acquire resources needed to satisfy efforts from technology and research roadmaps – these resources include both new staff, collaboration with existing teams, as well as hardware and software resources

**KR3:** Ensure current and new members are well-informed on Quality Assurance, Machine Learning pipelines and follow best practices. Best practices documentation is well maintained and easily accessible by all team members.