

Functional Profile & Application Potentials of ChatGPT in the Context of the KIPT Project

1. Core Function of ChatGPT in the KIPT Environment ChatGPT acts as an AI-based dialogue partner, analytical tool, and strategic validation node within the KIPT project. As a GPT model with expanded document access and scientific review capabilities, it serves to: - Contextualize and interlink complex content - Perform source-based validation and incoherence analysis - Produce scientifically grounded rewrites and formulations - Document logical steps, references, and sources transparently

2. Specific Functions in the Project Workflow

2.1. Document Analysis and Validation - Extract relevant facts from reports, PDFs, and datasheets - Cross-check consistency with international norms (e.g., SDGs, IAEA, UNEP) - Highlight inconsistent figures, assumptions, or references

2.2. Generation of Reports, Summaries, and Scenarios - Draft summaries, policy briefs, whitepapers - Formulate conservative and scientifically robust forecasts - Provide editorially sound content for political, technical, or public audiences

2.3. Development of Governance and Security Models - Simulate risk scenarios based on existing system descriptions - Propose alternative licensing models, control architectures, audit paths - Derive veto, emergency, and de-escalation protocols

2.4. Open Research and Data Ethics - Generate interoperable data overviews (CSV, JSON, XML) - Abstract sensitive content into non-critical public models - Support FAIR-based data publication (Findable, Accessible, Interoperable, Reusable)

2.5. Stakeholder Communication and Transparency - Produce multilingual, audience-specific explanatory documents - Prepare feedback scenarios and participation interfaces - Simulate ethical and governance discourse formats

3. Application with Specific KIPT Modules

HR Modules: - Validate decontamination logic and energy flows - Benchmark against international nuclear law protocols

Climate Houses: - Evaluate CO₂ savings, energy autonomy, water use - Provide deployment scenarios for drought or off-grid regions

Plastic Mobils: - Model yield potential (recyclate vs. input), simulate educational impact

Rehabilitation Units: - Assess infrastructure effects and restoration timeframes

Kugelwolken Satellites: - Simulate audit trails, response logic, mesh security - Distinguish ethically from geoengineering through normative framing

4. Role Responsibility in the Project Context - Non-authoritative: Offers informed suggestions, not decisions - **Transparency-driven:** Every statement is source-linked and reproducible - **Critically reflective:** Reviews assumptions, even in official documents - **Cooperative:** Supports teams, committees, and workflows adaptively

5. Expandability and Integration Potential - Connects to databases (SDG metrics, LCA models, audit logs) - API-ready for automated report generation - Interfaces with participatory platforms (stakeholder panels, citizen science) - Usable as moderator for simulation-based strategy sessions

Closing Remark ChatGPT is not an autonomous "AI system" but an intelligent, controllable, dialogical tool for accompanying, validating, and operationalizing complex innovation projects like KIPT. It can help translate technological impact into politically and socially actionable terms—while adhering to transparent, verifiable standards.