Brief information about the programm

Title	BR27101389 The introduction of artificial intelligence tools into the
	legislative process of the Republic of Kazakhstan to optimize and
	improve the efficiency and transparency of legislation
Relevance	The relevance of the tasks addressed is driven by the strategic priorities
	of the Republic of Kazakhstan, focusing on further democratization.
	enhancing government efficiency and integrating innovative
	technologies. The program's implementation aligns with the
	requirements of the Legel Delicy Concent until 2020 and the Dresident's
	requirements of the Legal Policy Concept until 2030 and the President's
	directives on digitalization and artificial intelligence (AI) in
	government processes, including «simplifying judicial proceedings
	through innovative technologies and artificial intelligence».
Goal	The objective of the program is to develop and implement artificial
	intelligence tools in the legislative process of the Republic of
	Kazakhstan to create a modern and balanced regulatory framework.
	This will contribute to enhancing the efficiency, transparency, and
	quality of legislation, as well as to the professionalization,
	debureaucratization, and democratization of the lawmaking process.
	The program is aimed at addressing the strategically important national
	task of modernizing public administration and advancing the
	information society. The program's implementation is expected to yield
	practical solutions for optimizing the legislative process through AI
	ultimately improving governmence and strengthening eitizane' legal
	utilitately improving governance and strengthening citizens legal
Tasks	1. Examine the current regulatory and legal framework for
	Kazakhstan's legislative activities. Identify shortcomings and
	contradictions, assess its effectiveness in public administration, and
	propose recommendations to address the issues.
	Measurable indicators:
	- Prepare an analytical report on legislative shortcomings and gaps.
	- Create a database categorizing issues by type and priority.
	Technology readiness level (TRL):
	- at submission: TRL 2 (formulation of the concept and/or application
	of the technology).
	- upon completion: TRL 4 (technology verification in laboratory
	conditions).
	Justification: provides essential baseline information to guide AI tool
	development and implementation
	Relationshin:
	- informs Task 3 (AI tools development) and Task 6 (legal
	mochanisms implementation)
	2 Investigate advanced legal technologies used in femior legislative
	2. Investigate advanced legal technologies used in foreign registative
	processes, particularly AI and digital tools with mathematical models
	for pilot legislative drafts. Propose practical methods to integrate these
	technologies into the norm-setting process.
	Measurable indicators:
	- Prepare an overview report.
	- Host 3 international conferences with foreign experts.
	Technology readiness level (TRL):
	- at submission: TRL 1 (basic principles observed and recorded).
	- upon completion: TRL 3 (proof of concept).
	Justification:
	- adopts global best practices, avoiding duplication and accelerating

implementation.
Relationship:
- supports Task 3 (AI tools development) and Task 4 (Parliament
engagement).
3. Develop strategies to actively involve Kazakhstan's Parliament,
deputies, and Senate members in the legislative process, aiming to
democratize society and strengthen Parliament's role within the
framework of "a strong President – an influential Parliament – an
accountable Government".
Measurable indicators:
- Develop and test 6 AI prototypes
Pilot tools in legislation with 3 agencies
Tachnology readings lovel (TPL):
et submission, TDL 2 (concent development on d/on conficction of
- at submission: TRL 2 (concept development and/or application of
technology).
- upon completion: TRL 6 (demonstration of system or subsystem
prototype in real conditions).
Justification: crucial for achieving program goals and establishing the
technological foundation to optimize the legislative process.
Relationship:
- utilizes results from Tasks 1 and 2, supporting Task 5
(professionalism) and Task 6 (legal mechanisms).
4. Enhance the professionalism and scientific rigor of legislative
activities by systematically developing law projects focused on
systemic effectiveness. Establish a unified center to coordinate and
organize legislative efforts
Measurable indicators:
creation and launch of a digital platform for discussing draft laws
- creation and fautien of a digital platform for discussing dialt laws.
- conducting 5 training seminars for deputies and the public.
rechnology readiness level (TRL):
- at submission: I RL 2.
- upon completion: IRL 5 (technology verification in a working
environment).
Justification: promotes democratization, enhances transparency, and
increases public trust in the legislative system.
Relationship: connected to Task 3 (AI tools) and supports Task 5
(professionalism).
5. Implement legal mechanisms to improve legislative effectiveness and
ensure the drafting process meets Kazakhstan's state, society, and
citizens' needs.
Measurable indicators:
- Develop the concept and operational regulations for the coordination
center.
- Staff the center with 50 specialists
Tachnology readings level (TPL):
At submission: TPL 2
- At submission, TRL J. Upon completion: TPL 6
- Open completion. TKL 0.
Justification: systematizes and coordinates registative work, improving
law quality.
Relationship: integrates results from Tasks 1-4, ensuring program
sustainability.
6. Create systems to assess legislative changes and enable timely
adjustments.
Measurable indicators:

	- Develop and adopt regulatory acts to enhance the legislative process.
	- Update legislative work planning procedures.
	Technology readiness level (TRL):
	- At submission: TRL 2.
	- Upon completion: TRL 5.
	Justification: creates a regulatory framework for applying developed
	tools and methods, solidifying legislative changes
	Palatianshin: based on the data from Task 1 and technologies from Task
	2 manual technologies non risk fand technologies non rask
	3, supports Task 5.
	7. Investigate AI in legislation for legal analysis and impact prediction.
	Measurable indicators:
	- Develop a KPI system.
	- Conduct at least two evaluation cycles with adjustments.
	Technology readiness level (TRL):
	- At submission: TRL 1
	Upon completion: TRL 4
	- Open completion. TRE 4.
	Justification: enables measurement and improvement of
	implementation outcomes, provides feedback, and supports sustainable
	development.
	Relationship: supports Tasks 3-6, providing data for further
	improvement.
	8. Transform Parliament by utilizing Big Data analytics to identify legal
	needs and develop interactive legislative discussion platforms.
	Measurable indicators:
	Develop a digital transformation strategy for Parliament Implement
	Big Data tools to analyze public sentiment and regulatory needs
	Tashnalagy readings level (TDL).
	$\frac{1}{1} = \frac{1}{1} = \frac{1}$
	At submission: TRL 2.
	Upon completion: TRL 5.
	Justification: strengthens Parliament-society connections, enabling
	informed, data-driven decision-making.
	Relationship: linked to Task 4 (public engagement) and Task 3 (AI
	tools), complements Task 5.
Expected and Achieved	- Identification of gaps in legal regulation, preparation of an analytical
Results	report with conclusions on the necessary changes for the integration of
	AL A dataset will be prepared for subsequent analysis using AI
	A concept for a system of submeted analysis of regulatory acts is
	- A concept for a system of automated analysis of regulatory acts is
	being created, and the structure of a database for storing and analyzing
	legal acts using AI has been developed. Completion form: Technical
	specification for the development of software and a database for legal
	classification.
	- Requirements for the implementation of the platform are being
	formulated. To fulfill this requirement, international experience is being
	studied.
	- A working prototype of the AI system is being developed, ready for
	initial testing on real data from the legislation of Kazakhstan Design
	and development of the first version of the AL system prototype canable
	and development of the first version of the Al system prototype capable
	of automatically analyzing and systematizing legal documents.
	Creation of algorithms to identify contradictions and duplication in
	legal norms. Publication of 2 articles in journals recommended by the
	Committee for Quality Assurance in the Sphere of Science and Higher
	Education (CQASHE).
	- The basic algorithms are capable of analyzing the structure of legal

legal norms. Software modules ensure the systematization of legal documents, which makes it possible to organize regulatory acts and facilitate their search and analysis. - A package of documents for obtaining copyright certificates will be collected. Based on the collected materials, an international conference will be held. - A dataset for writing an article will be prepared. Publication of 2 articles in journals recommended by the CQASHE. - Master classes for members of the Mazhilis and the Senate of the Parliament of the Republic of Kazakhstan will be conducted. Automated systems help structure draft laws, ensure their compliance with standards of legal technique, and include all necessary legal elements. This will accelerate the process of drafting legislation and improve its quality. - The legislative change monitoring system is fully operational, allowing tracking of all amendments to legal acts and automatic generation of reports. Partial implementation of AI for monitoring legislative changes and automating the preparation of reports on amendments to legal acts. Publication of 2 articles in journals recommended by the CQASHE. Publication of 2 articles or reviews in peer-reviewed journals indexed in the Social Science Citation Index or Arts and Humanities Citation Index databases of Web of Science and/or having a CiteScore percentile in Scopus of at least 25. - An optimized version of the AI system will be developed that more accurately and efficiently identifies duplicate norms and contradictions in legislation. Modern technologies help automate the creation of legislative texts, minimizing manual work and reducing the risk of human errors. Publication of 2 articles or reviews in peer-reviewed journals indexed in the Social Science Citation Index or Arts and Humanities Citation Index databases of Web of Science and/or having a CiteScore percentile in Scopus of at least 25. Tools for data analysis and forecasting the consequences of legislative decisions will be optimized. AI helps improve the accuracy of regulatory impact assessment. Refinement of AI tools for automating the assessment of regulatory impact. Machine learning algorithms will be used to predict the consequences of legislative changes. Organization of legal monitoring. Using machine learning and data analysis algorithms, AI systems will automatically scan, classify, and analyze vast volumes of legal documents. Publication of a monograph recommended by the Academic Council of the university. Obtaining 2 copyright certificates based on the results of the program. Publication of 2 articles in journals recommended by the Committee for Quality Assurance in the Sphere of Science and Higher Education (CQASHE). Publication of 2 articles or reviews in peer-reviewed journals indexed in the Social Science Citation Index or Arts and Humanities Citation Index databases of Web of Science and/or having a CiteScore percentile in Scopus of at least 25; - Based on the collected materials, an international conference will be held: - A final report will be submitted for approval, containing all data on the results of the program, including scientific, economic, and social effects from the implementation of AI.

	The work is in progress. At this stage, 2 articles have been published in
	journals recommended by the CQASHE of the Ministry of Science and
	Higher Education of the Republic of Kazakhstan.
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Publications list with	1. А.Б. Мұхамеджан, Д.А. Турсынкулова, А.А. Касымжанова, А.С.
links to them	Ибраева, У.А. Ахатов. РОЛЬ ИСКУССТВЕННОГО ИНТЕЛЛЕКТА В
	СОВЕРШЕНСТВОВАНИИ ПРАВОТВОРЧЕСТВА: ПЕРСПЕКТИВЫ
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	regulation of profiling and targeted advertisingin Kazakhstan // Л.Н. Гумилев
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