AI-based Services at the National Library of Korea

Experiment for the future library
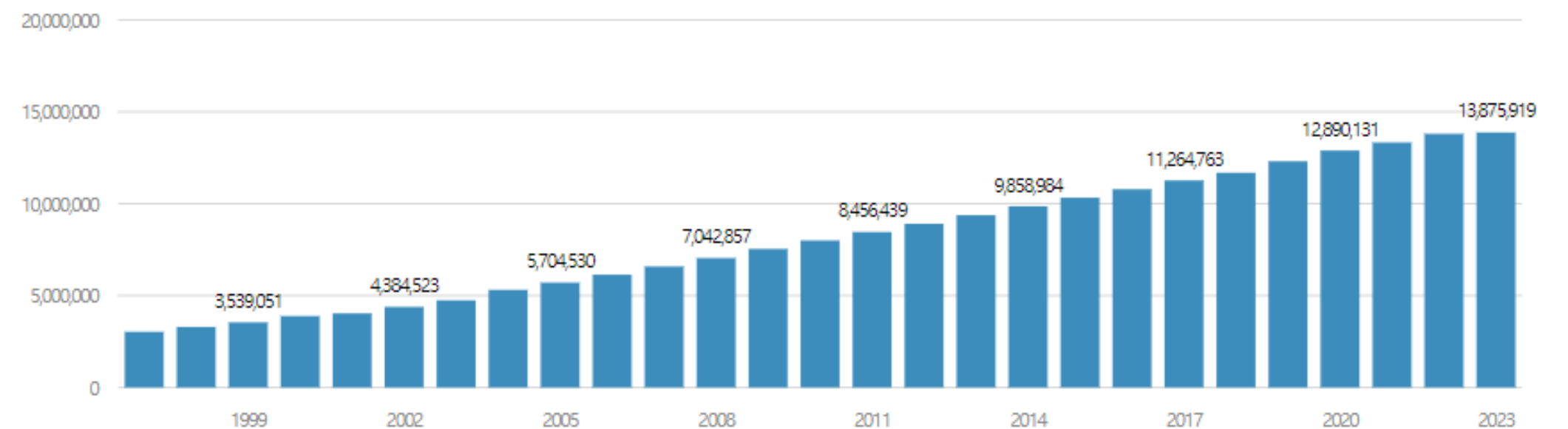
PRESENTER. HYE RIM, JEONG

Contents

National Library of Korea

The National Library, founded in 1945, is a comprehensive and treasured repository of intellectual and informational resources of the Republic of Korea. Since its establishment, the library has built its extensive collection of domestic publications and digital materials which are also preserved thoroughly and organized systematically. It houses over 13 million volumes, including some of the National Treasures of South Korea.

Annual Trend of Collection Increase

As of 2023-02-28 (Unit: Volume)

Values shown on the chart: 3,539,051; 4,384,523; 5,704,530; 7,042,857; 8,456,439; 9,858,984; 11,264,763; 12,890,131; 13,875,919

Years: 1999, 2002, 2005, 2008, 2011, 2014, 2017, 2020, 2023

Digital Information Planning Division

- Establishment of a digital library development plan

- Collection and preservation of online materials that are not subject to International Standard Numbering

- Cooperation and support for sharing domestic and international online materials

- Collaboration with domestic and international digital libraries and work with international organizations

- Standardization and dissemination of technology for library informatization

- Digitization of full-text databases of collected materials

- Development and operation of the NLK's resource management system and related systems

- Research and development of digital new technologies

AI related researches

2021 Research on the development of librarian support tools utilizing AI technology

2022 BPR Consulting for Next Generation Knowledge Information Services

Development of AI-based pilot services

Data construction project for AI learning

AI summary service

◉ AI can write and view summaries of books and papaers in various fields

Searching books based on MRC (Machine Reading Comprehension)

◉ AI finds answers in the 6,400 publications in the NLK when you ask questions in sentences

AI-Based Subject Recommendation Pilot Service

- A service that analyzes the book's information and recommends the subjects

- When the user enters the ISBN of the book, the title and the table of contents are automatically entered

- Results provide headline-based and table of contents-based subjects, KDC, DDC, National Library of Korea Subject Headings(NLSH), and bibliographic information URI, LOD

Chatbot Pilot Services
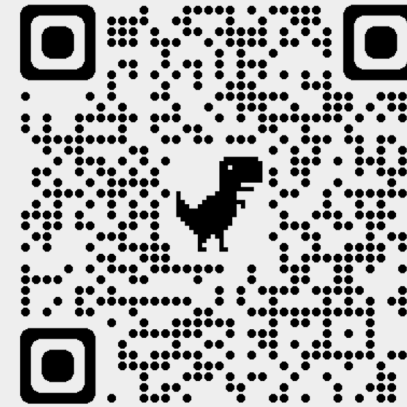
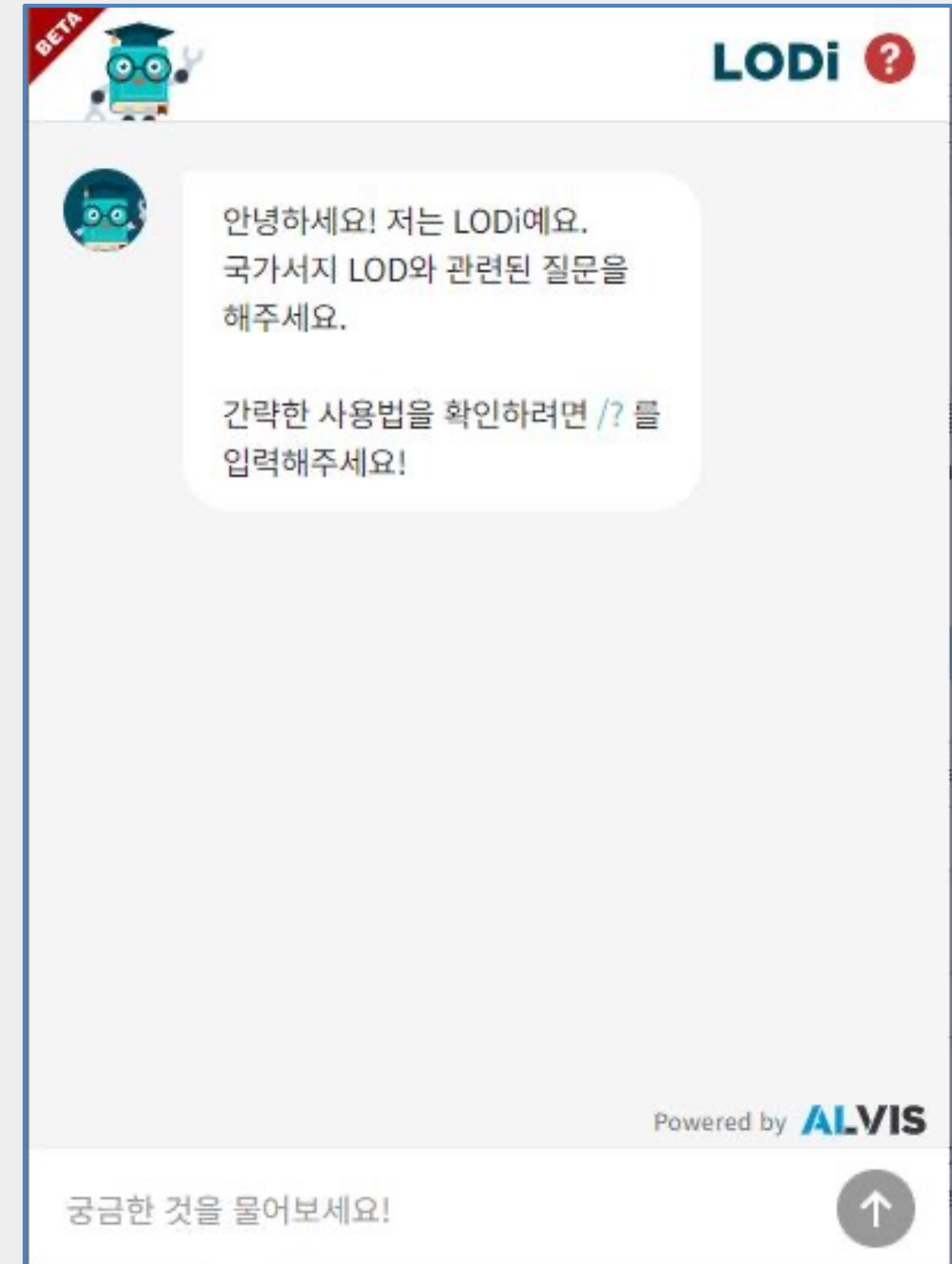## Lodi(LOD chatbot)

◉ Using data provided through the NLK
  Linked Open Data(LOD)

◉ Answer questions about books, authors, and libraries

◉ Responses to general conversations

BETA

LODi ?

안녕하세요! 저는 LODi예요.
국가서지 LOD와 관련된 질문을
해주세요.

간략한 사용법을 확인하려면 /? 를
입력해주세요!

Powered by ALVIS

궁금한 것을 물어보세요!

Chatbot Pilot Services

Library guide chatbot 2023

◉ Results of NIA's Advanced Supergiant Artificial Intelligence Utilization Support Project

◉ Implemented search engines with QA data for some of the FAQ on the website

maumChatbot

검색 결과를 포함하고 전문가의 의견을 담은 업종/도메인 챗GPT를 제공합니다.
maumGPT는 정보 유출 걱정이 없는 기업용 GPT 입니다.

지금 **maumGPT**와 대화해 보세요.

이런 대화 주제는 어떠세요?

국립중앙도서관에서 제공하는 국가지식자원공유서비스를 이용하려면 어떻게 해야 하나요?

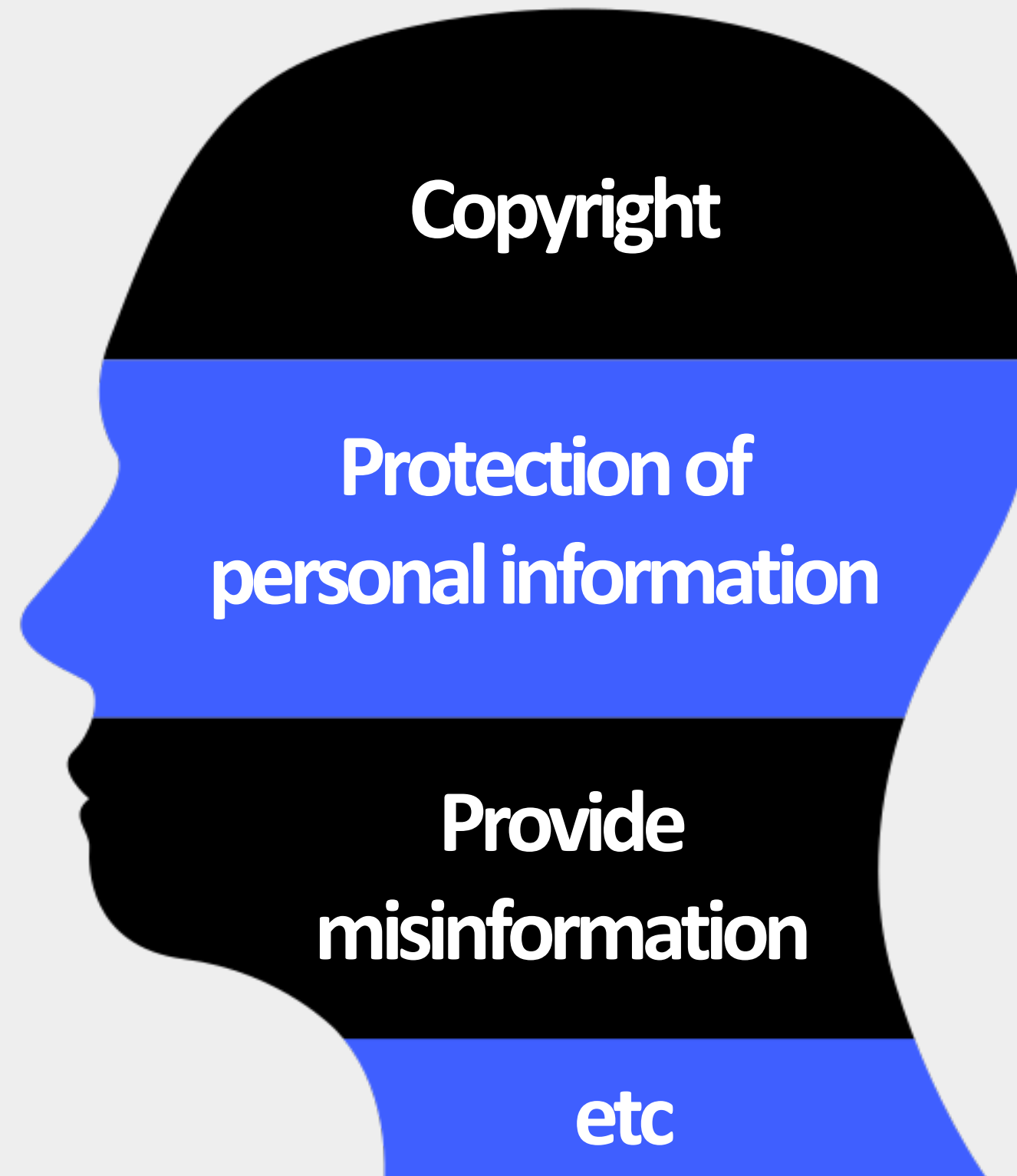국가지식자원공유서비스에서 제공하는 자료 중 일부는 사용이 제한될 수 있나요?

국가지식자원공유서비스 이용에 대한 설명서나 가이드는 어디에서 볼 수 있나요?

대화를 입력해 주세요.

Challenges

Copyright

Protection of
personal information

Provide
misinformation

etc

Future Vision
(4th Comprehensive Library Development Plan 2024-2028)

4-1 Library Digital Innovation

4-1-1.
Digital Transformation of
Library Operations Environment

**Development of Intelligent
Business Support Systems**

4-1-2.
Expansion of New Technology
Convergence Library Services

AI-Leveraged Library Services

Thank you

- PRESENTER. HYE RIM, JEONG
- E-mail. yoppee@korea.kr

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