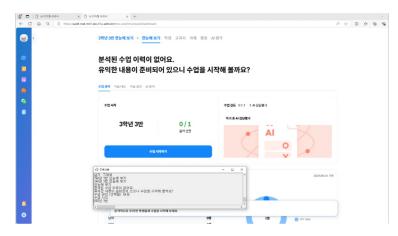




To ensure that students with disabilities can receive digital education without discrimination,

we add our unique UDL* and barrier-free** services on top of the

AI digital textbook learning platform and content.



* Universal Design for Learning (UDL)

Derived from Universal Design (UD), which is also known as design for all or inclusive design, UDL applies the principles of accessibility and usability to teaching and learning contexts. Its aim is to provide flexible materials and methods that offer accessibility for all learners, present appropriate challenges, and engage students in learning.

Source: Wikipedia, Education Policy News (https://www.edupolnews.com)

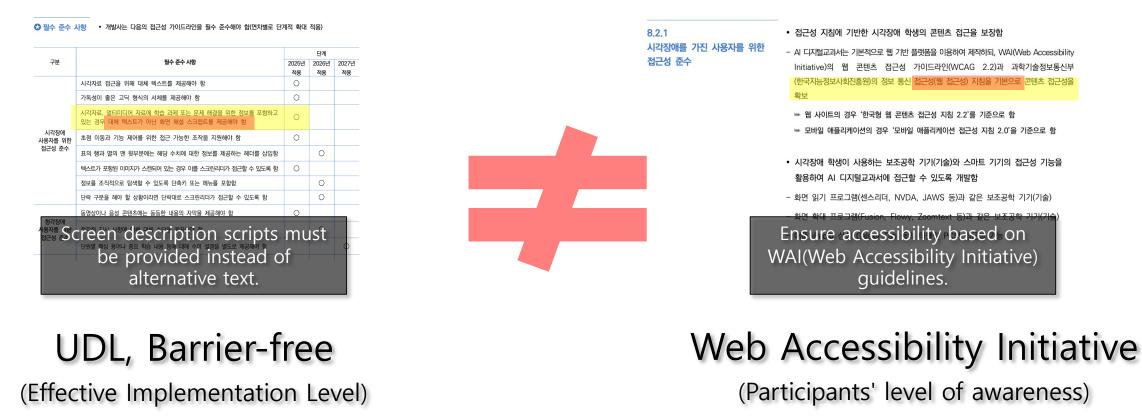
** Barrier-free

Refers to the movement and policies aimed at removing physical obstacles or psychological barriers that hinder the social life of vulnerable groups such as people with disabilities, the elderly, and pregnant women. Source: Wikipedia



Problem

More than 4,000 students with visual and hearing impairments in South Korea will not be able to receive proper education through the AI digital textbooks, which will be expanded starting in 2025.





• Number of registered persons with disabilities in 2023 (Ministry of Health and Welfare website):

https://www.mohw.go.kr/board.es?mid=a10503000000&bid=0027&list_no=1481120&act=view

Problem

They are actually making it this way!

Web Accessibility Initiative

Press Tab to navigate to 'Picture 1'

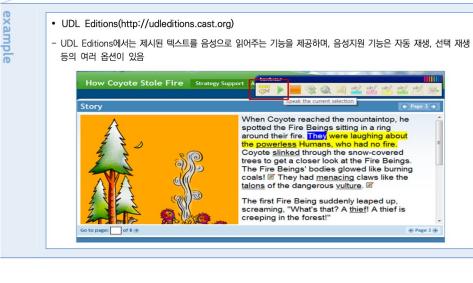
Screen description script (Applying UDL and barrier-free)

Auto-play as soon as you enter the page: 'There is a picture of a primitive man making a fire next to a tree.

Shall we read the text as well?'



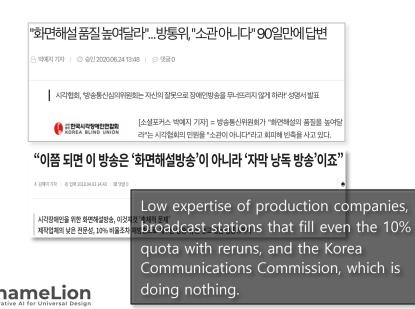
◇ 학습 내용을 음성으로 읽어주는 기능 제공





Problem

정부, 장애인 방송접근권 확대 움직임…유료방송 · OTT는?	
디지텔데일리 [발행일 2022-08-13] If regulations are applied, sign will be incurred, 유료방송과 OTT 사업 자들도 당장을 나내를 도장하고 하는 자매이 방송 and hundreds of billions of wo 의무편성 규제가 적용 될 것은 사당한 방용 보다이 수비될 수 있어서 다 needed for subtitle production 업계에 따르면 국내 OTT 전체 콘텐츠 지막 제전에는 수백 억원이 필요	on(₩) will k
한상황이다.	
장애인방송편성의무'빈껍데기'	
음 윤현민기자 ④ 승인 2022.06.10 10:01 ഈ 댓글 0	
의무위반 사업자 13곳 중 11곳이 지상파 KBS전주 등 7곳 2년 연속 편성의무 위반	



"High-quality UDL and barrier-free services:

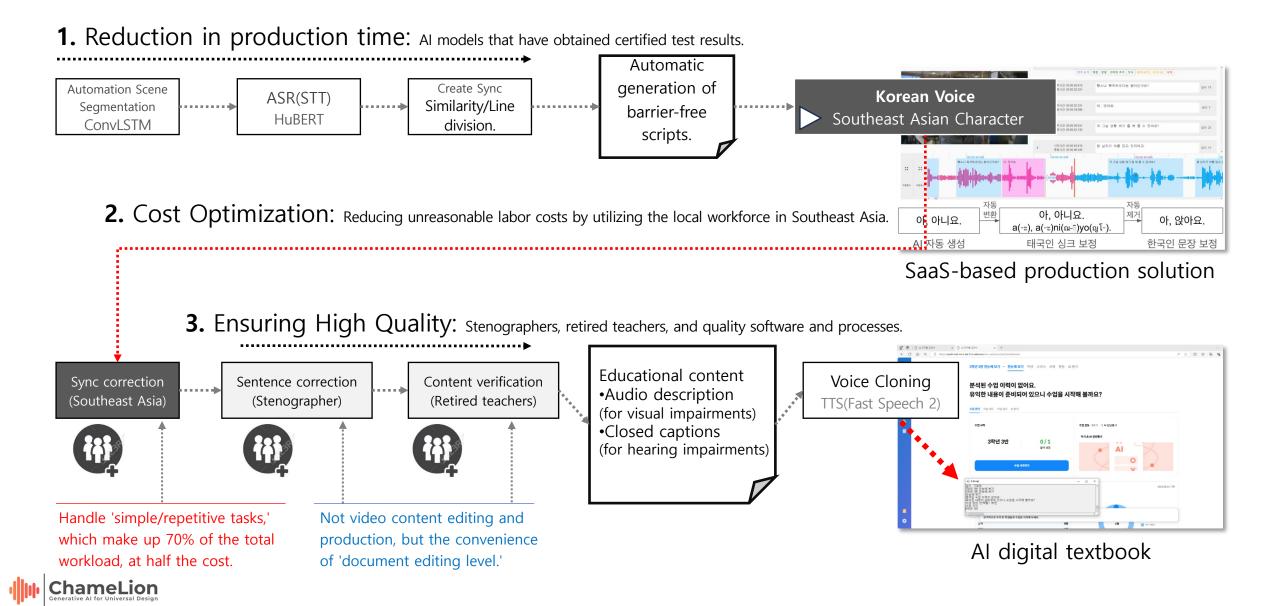
What about the production costs and time?

The reason why even after more than 10 years of legislation*, screen description broadcasts are not enforced 100% on TV, let alone VOD and OTT platforms!"

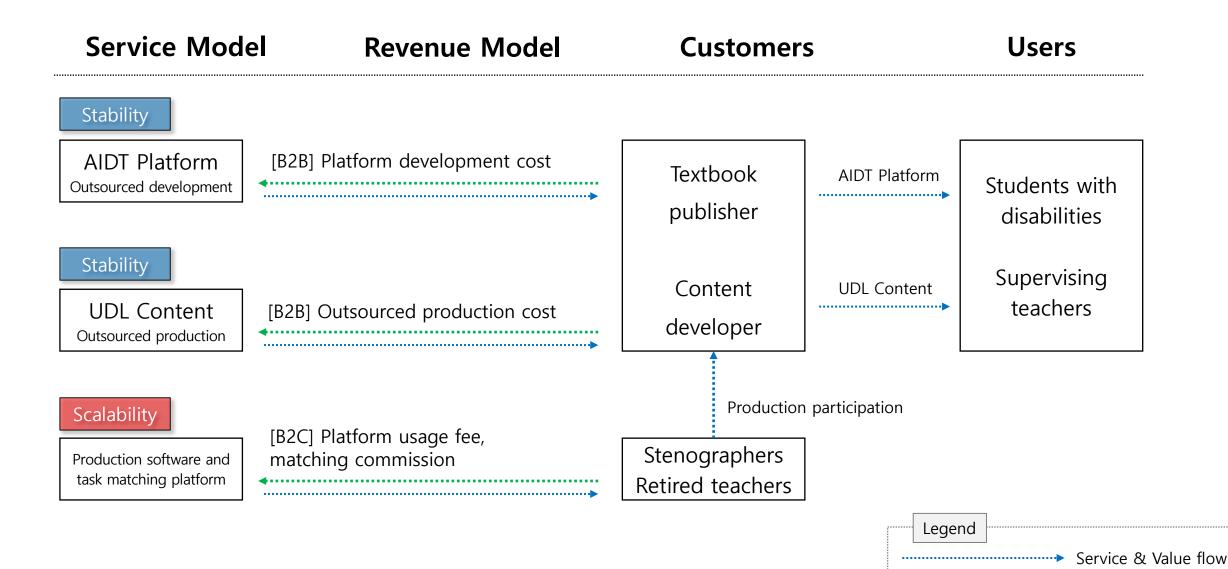
* Article 69, Paragraph 8 of the Broadcasting Act, and Article 21, Paragraph 3 of the Act on the Prohibition of Discrimination Against Persons with Disabilities and the Provision of Remedies.



To maximize the 'capabilities and strengths of production experts,' utilize local workers in Southeast Asia for simple/repetitive tasks with the support of a 'production-assist AI solution.'



Business Model



Revenue flow

4.....

-IIII-	ChameLion Generative AI for Universal Design
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Market size

TAM : Total digital education

- Global : 46.7 billion USD(2026)
- South Korea : 3.27 billion USD(2026)

SAM : South Korea digital education

• 1 year : 2.05 billion USD

SOM : AI digital textbooks

- 1-year : 769.23 million USD
- 1-year government budget: approximately 384.62 million USD
- Private market size: approximately 384.62 million USD

KISTI(Korea Institute of Science and Technology Information) : ASTI MARKET INSIGHT(2022-046)

The global digital education market size was 11.5 billion USD in 2021, and it is expected to grow at an average annual rate of 32.3%, reaching 46.7 billion USD by 2026.

In South Korea, the market is expected to grow from 810 million USD in 2021 to 3.27 billion USD by 2026.

Maeil Economy (https://www.mk.co.kr/news/it/10985379)

The industry estimates that textbook publishing, including supplementary study books, workbooks, and exam preparation books, accounts for more than half of the entire publishing market. According to the Ministry of Culture, Sports, and Tourism's content industry survey, the sales revenue of the textbook and educational book publishing sector reached 2.6692 trillion KRW in 2022. The "2022 Leisure White Paper" shows that in the domestic publishing market, valued at 3.8728 trillion KRW, textbooks, supplementary study books, workbooks, and exam preparation books account for nearly 60% of the market.

Korean economy (Fierce competition in the AI digital textbook market, https://www.hankyung.com/article/2024060309771)

The AI digital textbook market, set to launch next year, is expected to make the greatest impact. AI textbooks will provide personalized education by using devices such as tablets. Starting from next year, AI textbooks will be introduced first for 3rd and 4th graders in elementary school and for 1st graders in middle and high school in subjects like math and English. Once AI textbooks are fully implemented, traditional paper textbooks will be phased out.

Currently, the recommended price for a paper textbook is between 6,000 and 9,000 KRW, and the annual market size is around 500 billion KRW. AI textbooks are expected to cost between 60,000 and 100,000 KRW per year based on subscription. Korea is the first country in the world to introduce AI across its public education system. In preparation for the introduction of AI textbooks, the Ministry of Education allocated a budget of 533.3 billion KRW this year, with 380 billion KRW designated solely for teacher training. Masspress, which operates a learning platform, has entered the market by developing a digital textbook platform and is partnering with other companies like Google, which is focusing on cloud-based textbooks. The Ministry of Education expects AI textbooks to open new markets for EdTech companies, including services such as student management solutions that leverage AI and digital devices.

Closing



Social Impact

- The impact of universal learning rights in digital education on the lives of 4,000 students with disabilities in South Korea.
- The community that suffers alongside one person with a disability includes their family, teachers, and children participating in group activities.
- We must consider not only the individuals with disabilities and their communities, but also the companies and market sizes affected by institutionalization.

