

Deliberative Democracy: AI for Inclusive Participation

Peter Cui | Zoey Tseng | Taka Shunsuke | Gisele Chou

People-centered Participation

vTaiwan aims to leverage digital tools to enable public participation to reach a broader range of stakeholders.

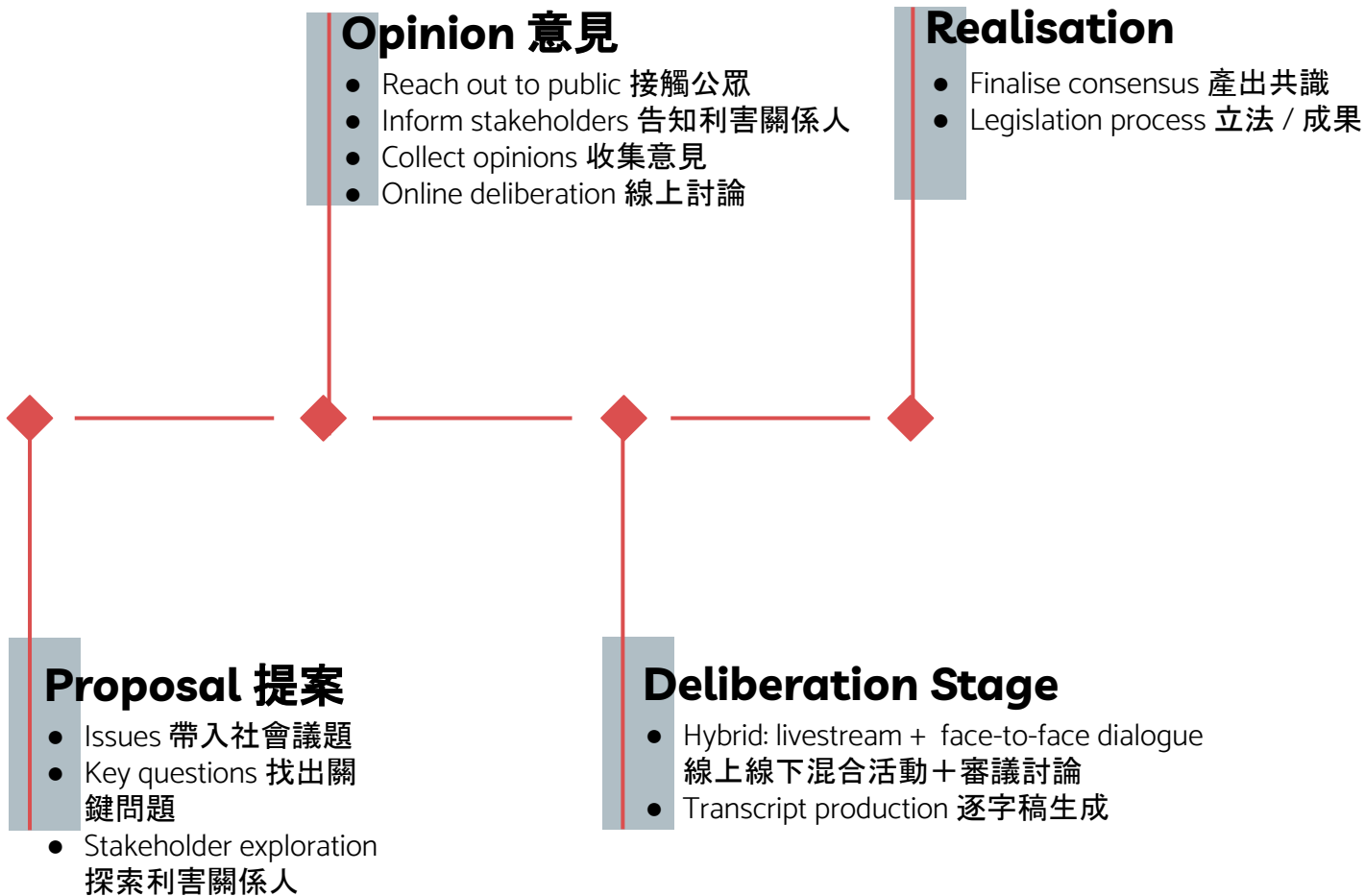
Openness & Transparency

Openness and transparency have remained the core values.

Leverage Innovation

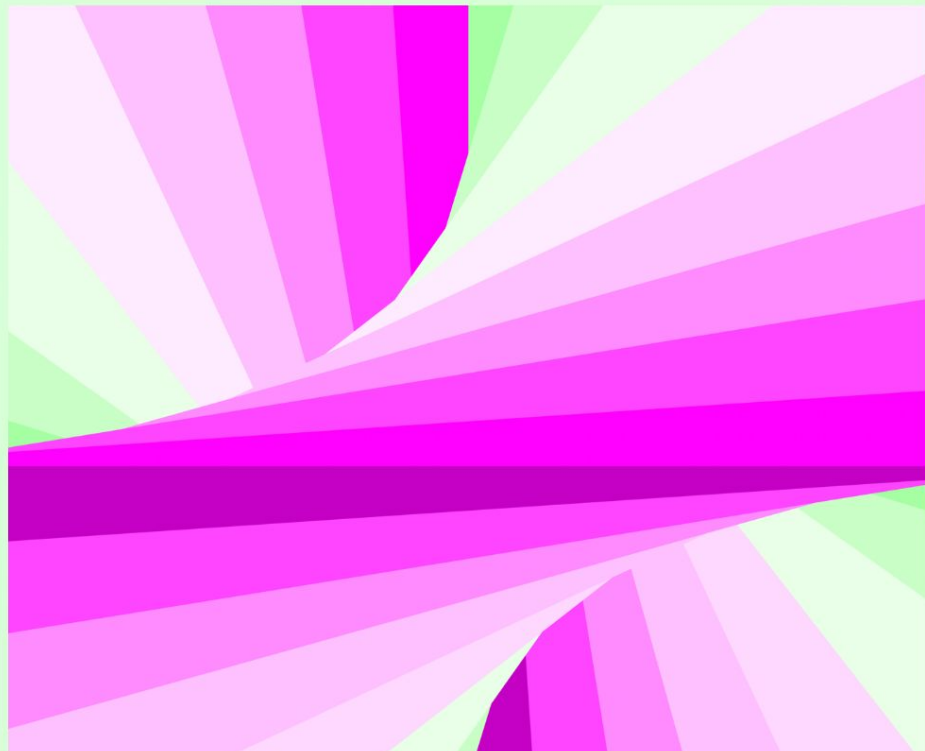
vTaiwan mechanism can integrate various digital tools and has recently incorporated generative AI analytics tools.





Democratic inputs to AI

Our nonprofit organization, OpenAI, Inc., is launching a program to award ten \$100,000 grants to fund experiments in setting up a democratic process for deciding what rules AI systems should follow, within the bounds defined by the law.





10 out of 800s.
Only team with Taiwanese

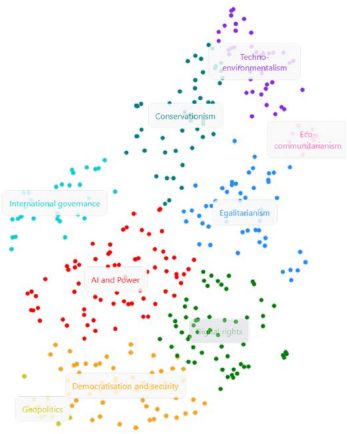


RECURSIVE PUBLIC

Piloting Connected Democratic Engagement with AI Governance

Flynn Devine
Alex Krasodonski-Jones
Carl Miller
Shu Yang Lin
Jia-Wei 'Peter' Cui
Bruno Marnette
Rowan Wilkinson

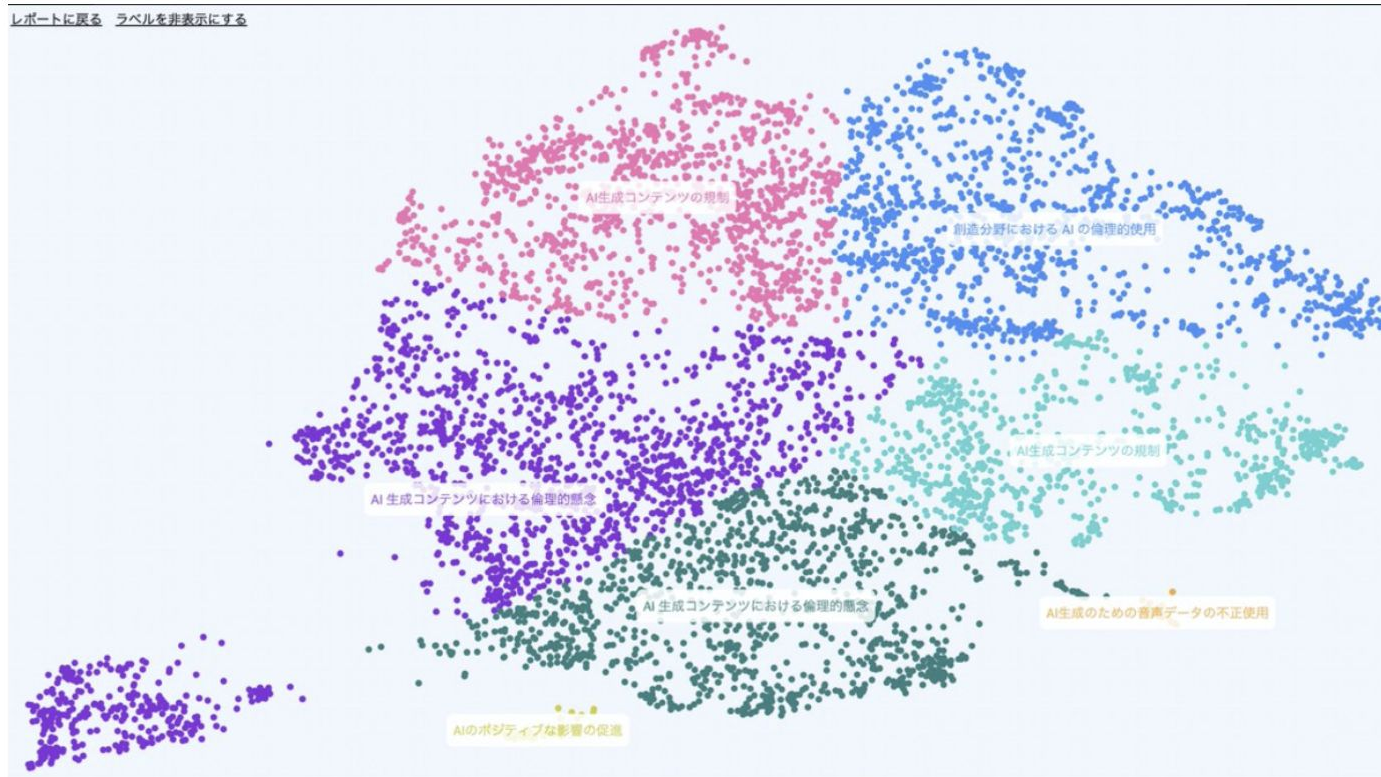
November 2023



Talk to the City

Talk to the City aka Polis 2.0 - density-based scatter-plot UI

Technical details : DBSCAN/HDBSCAN + LLM Labeling & Calls



Source : TTTC: AIと著作権に関するパブリックコメント

Talk to the City Turbo - Hierarchical based analysis

Technical details : LLM Calls

Talk to the City

HOME ABOUT

👤 🇺🇸

Overview

Clusters

- 醫療AI
 - 醫療AI應用
 - AI在手術中的應用
 - AI與人工負擔
 - 醫療實務
 - 醫療資訊與隱私
 - 醫療資料共享
 - 醫療AI法規與治理
 - AI醫療責任歸屬
 - 醫療AI硬體與能源
 - 醫療資訊安全
- AI與教育
 - 教育與學習
 - 教育與AI
 - 教育科技
 - 教育與訓練
 - 教育評估
 - 教育應用
 - 教育與職涯
 - 教育評鑑
 - AI技術發展
 - 教育與培訓
- AI影響與應用
 - AI應用與挑戰
 - AI與社會影響
 - AI對職業影響
 - AI應用與發展
 - AI應用

Cluster	Count
醫療AI	10
AI與教育	10
AI影響與應用	10
法規與政策	10
技術與挑戰	6
未來展望與挑戰	6
個人與社會	7
隱私與安全	4
社會與文化	8
資訊與數據	8

醫療AI

588 Claims, 10 Subtopics

台灣的醫療AI發展正快速進行，其應用範圍廣泛，從臨床診斷、病患護理到遠距醫療和病歷自動化記錄等多方面，旨在提升醫療效率和病患體驗。隨著5G和AI技術的進步，醫療界期待AI在手術、急診等領域發揮更大作用，透過影像辨識和大數據分析，提高手術成功率和減少誤診。然而，AI的發展也帶來挑戰，包括

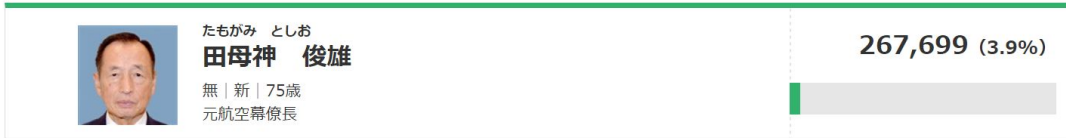
[Back to overview ↑](#)

Introducing How TTTC work in Mayor of Tokyo election



←Anno Takahiro

Anno got 150k votes although he not a famous person.



No.1 vote-getter in the history

- among candidates with no experience and no organization
- among 30s candidates

Source: <https://www.nhk.or.jp/senkyo/database/local/shutoken/20336/skh54664.html>

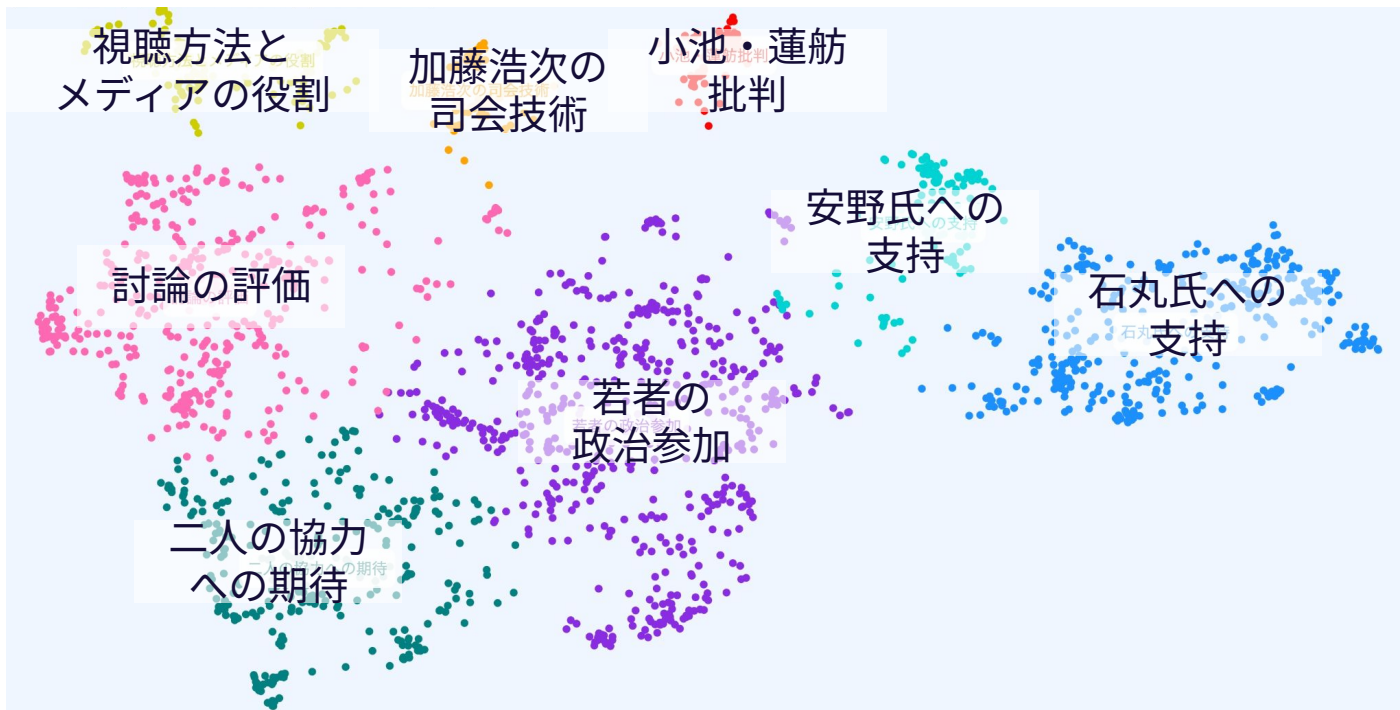
What's the TTTC in 1 line

**Let's use technology (AI) to collect
and visualize a lot of voices!**

Step.1 Listening

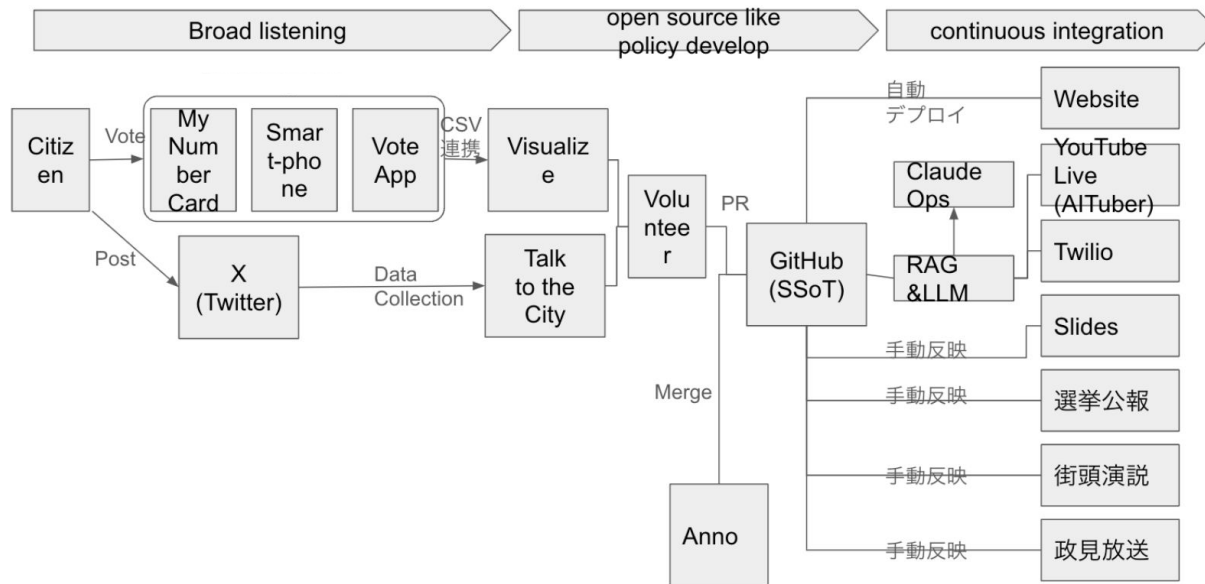
Talk to the city to grasp the big picture

get the data from X, YouTube, etc. process with TTTC



System Architecture of the election (1st version)

Architecture of the election



Step. 3 Delivery

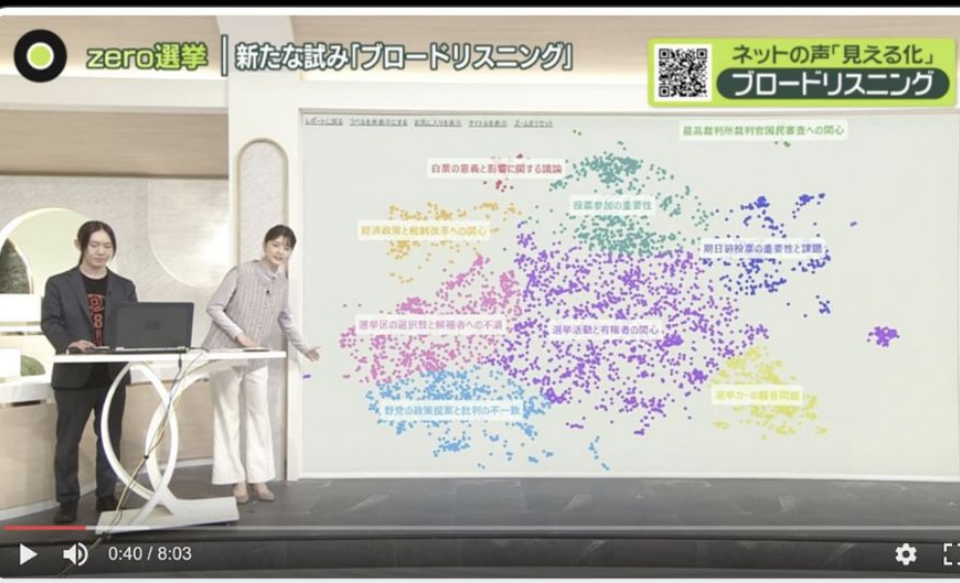
AI Tuber to delivery our manifest.



皆の意見でアップデート
#TOKYOAI

road listening on TV show!

テレビ番組で幅広く聴ける！



10:45 AM · Oct 26, 2024 · 4,553 Views

Talk to the City was used in a special program by Nippon TV regarding an upcoming election, where live questions were asked to incumbent politicians.

Talk to the City は、次の選挙に関する日本テレビの特別番組で使用され、現職の政治家に生の質問が行われました。



9:43 PM · Oct 15, 2024 · 4,481 Views

3,097 posts

22歳の非力な新卒社員

ミッション

たった1年で

億円企業



安野貴博 ✓

@takahiroanno Follows you

ソフトウェアエンジニア。起業家。SF作家。34歳・
松尾研→外資コンサルBCG→スタートアップを2社
チャー他→東京都知事選2024出馬 安野たかひろ事



NISHIO Hirokazu ✓

@nishio Follows you

Doctor of Science & Master of Tech Mgmt
Member of Mitou Foundation | Contributor
理学博士および技術管理修士 | サイボウズ 研究

Insights from recent studies and experience

- Localized for cultural context 在地化與符合文化脈絡的工具很重要
- Trust and digital gaps 增進信任與克服數位落差為核心
- Language Assistants 應用於語言翻譯的可能性
- More Adaptive Approach 是否能夠開發出更適應性的輔助系統？

Real-time Opinion Mapping: Taiwan's May Protest

Context: vTaiwan collected real-time opinion on the streets (May 21 & 28) for the protestors, citizens and the government to understand the protest better.

Method: Crowdsource with flyers randomly distributed in the protest with Pol.is QR code. Cluster opinions using **Pol.is report** and **GPT4 summarisation**.

vTaiwan 社群參與者一尾、tofus 與 Peter 在青島運動現場運用 pol.is 進行意見徵集。並利用 Pol.is 的資料 和 GPT4 進行統整

Group A (120 participants):

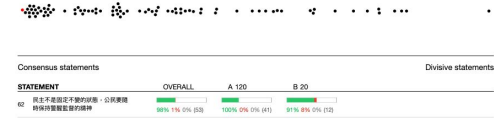
Anxiety about Taiwan's future, fearing betrayal to the CCP by certain political factions (Kuomintang and People's Party). Criticism of perceived **undemocratic legislative processes** and **lack of procedural justice**.

這群參與者具有對於台灣未來的焦慮，擔心某些政治勢力（國民黨和民眾黨）會背叛台灣並向中共靠攏。他們也批評立法過程中被認為不民主的做法，以及程序正義的缺失。

How divisive was the conversation?

Statements (here as little circles) to the left were voted on the same way—either everyone agreed or everyone disagreed. Statements to the right were divisive—participants were split between agreement and disagreement.

How to use this: Hover to see the statement text. Start on the far right to find out what the most divisive statement was.



Group B (20 participants):

Support for **legislative reforms to balance power**, seeing systemic issues as a broader problem involving all major political parties. Critique of the Democratic Progressive Party (DPP)'s past excessive use of power when it held complete control.

這群參與者支持立法改革以平衡權力，認為制度性問題是涉及所有主要政黨的更廣泛問題。他們也批評民進黨在過去全面掌握政權時，過度使用權力的行為。

參與線上投票!
讓社會跟國會看見我們的聲音!
這是一項「非強制性」的民意調查。所有參與者均為匿名。調查結果將作為政府參考。請在投票前，先了解相關資訊。投票時間：即日起至5月28日止。
vTaiwan
臺灣政府
掃描QR CODE 告訴大家你的想法!
也可以對你喜歡的看法投贊同票!

Thanks Josh for making this slides and results!

Case: Democratic Input to AI

Group C (N=37):

- Prioritises **bias prevention** and **inclusivity** in AI. 優先考慮防止偏見和包容性。
- **Opposes any form of censorship** in AI applications. 反對在人工智慧應用中任何形式的審查。
- Encourages AI to tackle sensitive topics with educational warnings. 鼓勵人工智慧在處理敏感話題時，在生成的內容附帶警語。

Group A (N=46):

- Focuses on **transparency, human rights, and free speech** in AI. 專注於人工智慧中的透明度、人權和言論自由。
- Advocates for data privacy and justification for AI-driven content modifications. 倡導資料隱私以及對人工智慧生成的內容調整給出正當理由。
- **Opposes hate speech, promoting democratic and ethical AI use.** 反對仇恨言論，推動民主且符合道德的人工智慧使用。

Group B (N=62):

- Emphasises **cultural sensitivity** and **adherence to regional laws** and norms in AI. 強調人工智慧中對文化敏感性以及遵守在地法律和規範的重要性。
- Advocates for AI responses that reflect local contexts. 認為人工智慧回應應該反映當地的文化與社會情境。
- Challenges intellectual property rights over AI-generated content. 對人工智慧生成內容的智財權提出挑戰。

Thanks Josh for making this slides and results!

What's a deliberation workshop

Claude says.....

In the Taiwan context, deliberation workshops (審議工作坊 or 審議式工作坊) are structured public participation events that have become an important part of Taiwan's participatory democracy practices, especially since the Sunflower Movement in 2014.

A deliberation workshop is a facilitated discussion format where citizens come together to deeply discuss specific public issues, learn from experts and each other, and work toward finding common ground or recommendations.

Here's a detailed explanation of the process:

Key Characteristics:

1. Diverse participation - Participants are usually selected to represent different demographics and viewpoints
2. Informed discussion - Participants receive balanced information materials before and during the workshop
3. Structured dialogue - Discussions follow a clear process with trained facilitators
4. Consensus-seeking - The goal is to find areas of agreement while respecting differences

Why don't we use LLM to help?

Talk to the City

HOME ABOUT

Overview

Clusters

- 醫療AI
 - 醫療AI應用
 - AI在手術中的應用
 - AI與人工負擔
 - 醫療實務
 - 醫療資訊與隱私
 - 醫療資料共享
 - 醫療AI法規與治理
 - AI醫療責任歸屬
 - 醫療AI硬體與能源
 - 醫療資訊安全
- AI與教育
 - 教育與學習
 - 教育與AI
 - 教育科技
 - 教育與訓練
 - 教育評估
 - 教育應用
 - 教育與職業
 - 教育評鑑
 - AI技術發展
 - 教育與培訓
- AI影響與應用
 - AI應用與挑戰
 - AI與社會影響
 - AI對職業影響
 - AI應用與發展
 - AI應用
 - AI時代認知
 - AI影響
 - AI與教育結合
 - AI技術發展
 - AI與技術發展

醫療AI

台灣的醫療AI發展正快速進行，其應用範圍廣泛，從臨床診斷、病患護理到遠距醫療和病歷自動化記錄等多方面，旨在提升醫療效率和病患體驗。隨著5G和AI技術的進步，醫療界期待AI在手術、急診等領域發揮更大作用，透過影像辨識和大數據分析，提高手術成功率和減少誤診。然而，AI的發展也帶來挑戰，包括確保系統...

AI與教育

在未來五年，AI技術在教育領域的應用將達到新的里程碑，預計將深入融入學習環境，提供個性化教學方案，並適應學生的學習進度和風格。這將使學習更加個人化和高效，激發學生潛能。隨著數位原住民和數位移民對數位學習態度的差異，學生需要學會如何在AI的輔助下判斷資訊的正確性，而教育者則需思考如何培養學生對A...

AI影響與應用

AI技術的興起正在全球範圍內引發深遠的影響，台灣也不例外。這股浪潮不僅預示著挑戰，也帶來了提升人類福祉和幸福感的新機遇。AI的應用已經滲透到日常生活的各個層面，從公共部門的運作到個人生活管理，展現出節省時間、提高效率及支持決策的潛力。然而，AI在實際操作層面上仍面臨挑戰，如資料結構化、人性化設...

法規與政策

台灣正面臨AI法規與政策的更新挑戰，旨在促進科技創新與應用，同時保障利益相關者的權益。隨著AI技術的快速發展，現有法律體系需調整以應對新挑戰，特別是在資料保護、法制化方面。政府正努力制定明確法規，指導技術與數據的合理使用，並考慮到創作人員的權益。著作權法在AI訓練中的應用也是關注焦點，需謹慎處...

技術與挑戰

在當今科技快速發展的時代，技術挑戰無所不在，尤其在人工智慧(AI)領域的發展中，面臨著算力、資料和人才的需求。這些挑戰不僅涉及

594 Claims

497 Claims

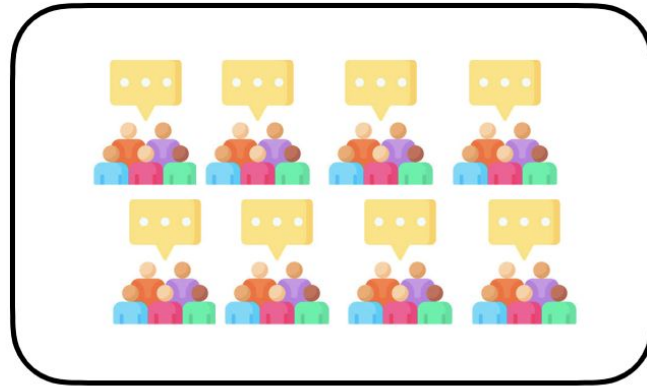
381 Claims

233 Claims

206 Claims

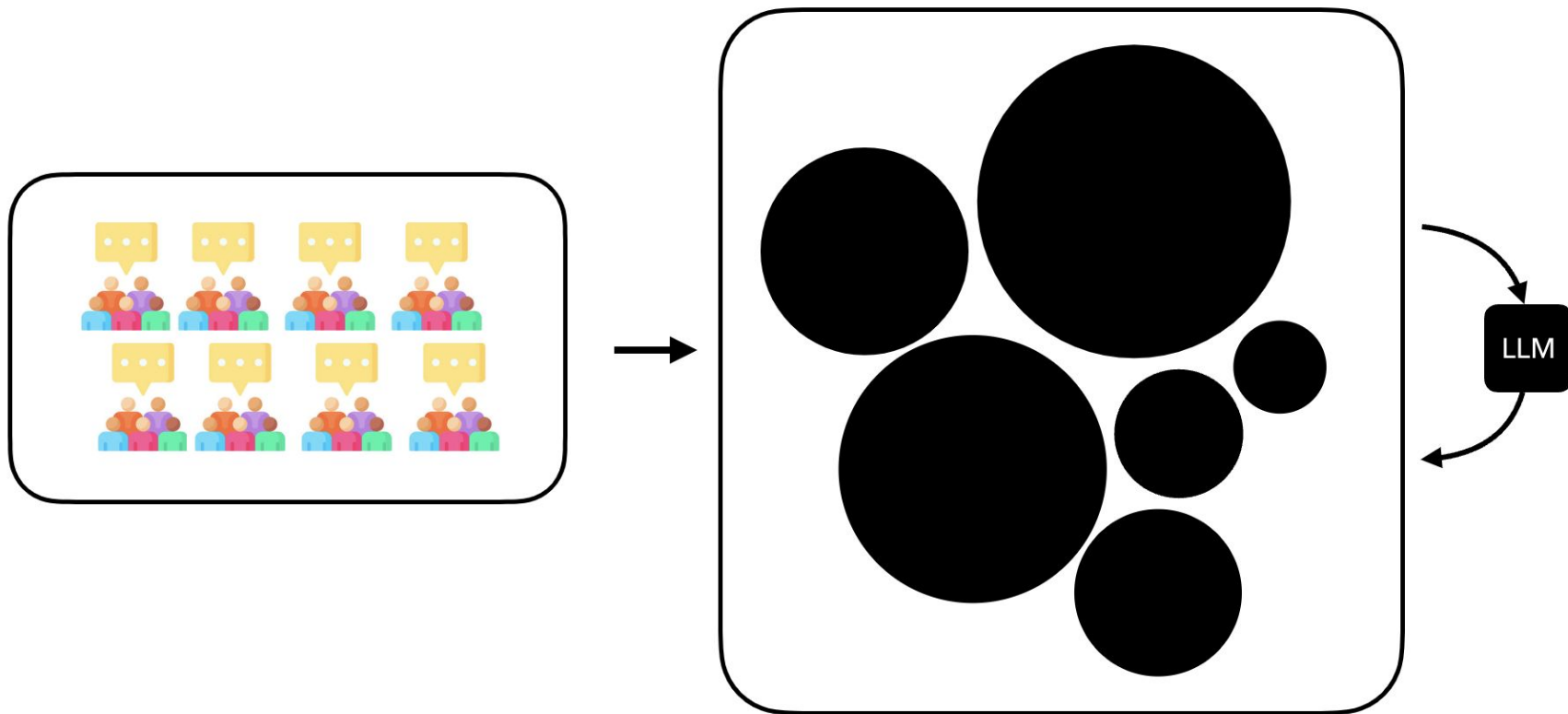


How conversation being processed as a pipeline

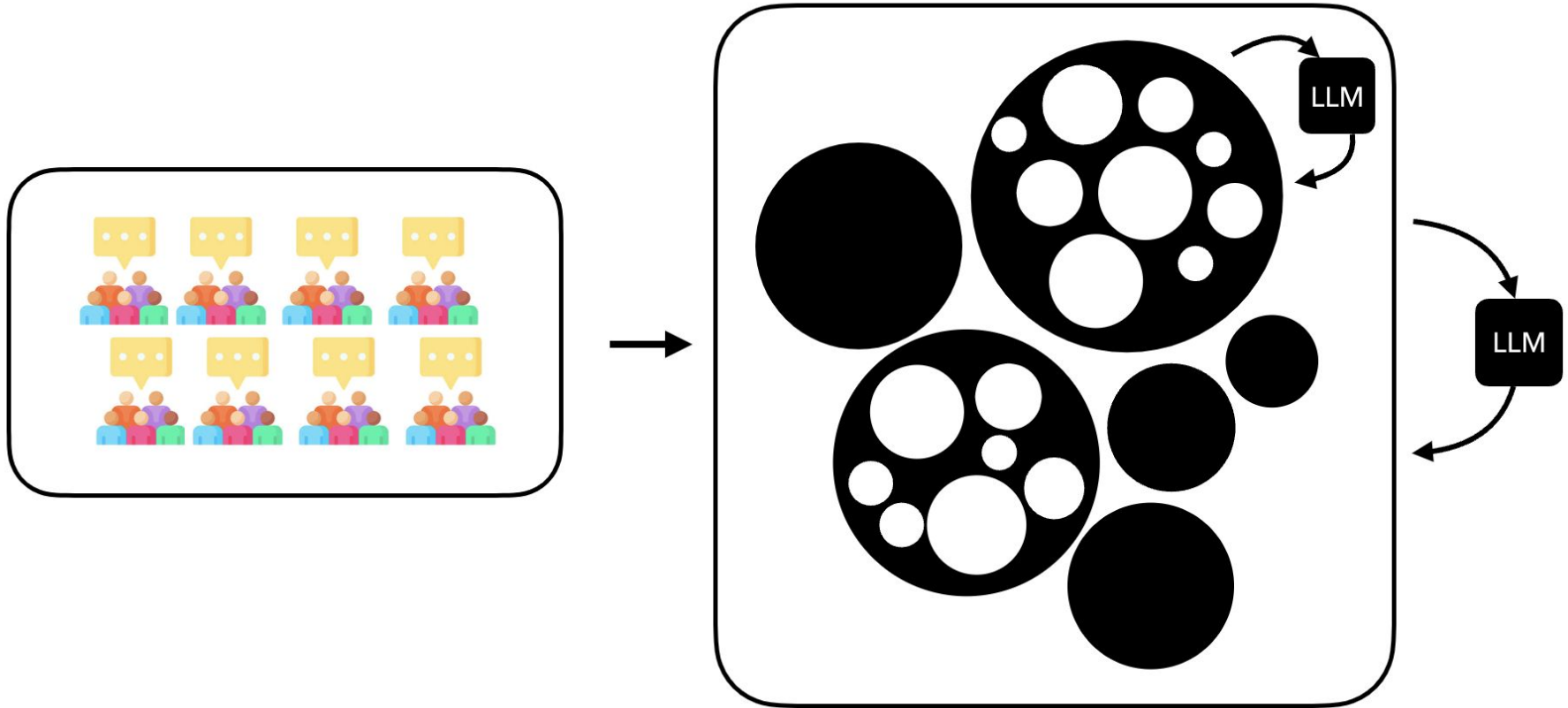


Density v.s. Depth

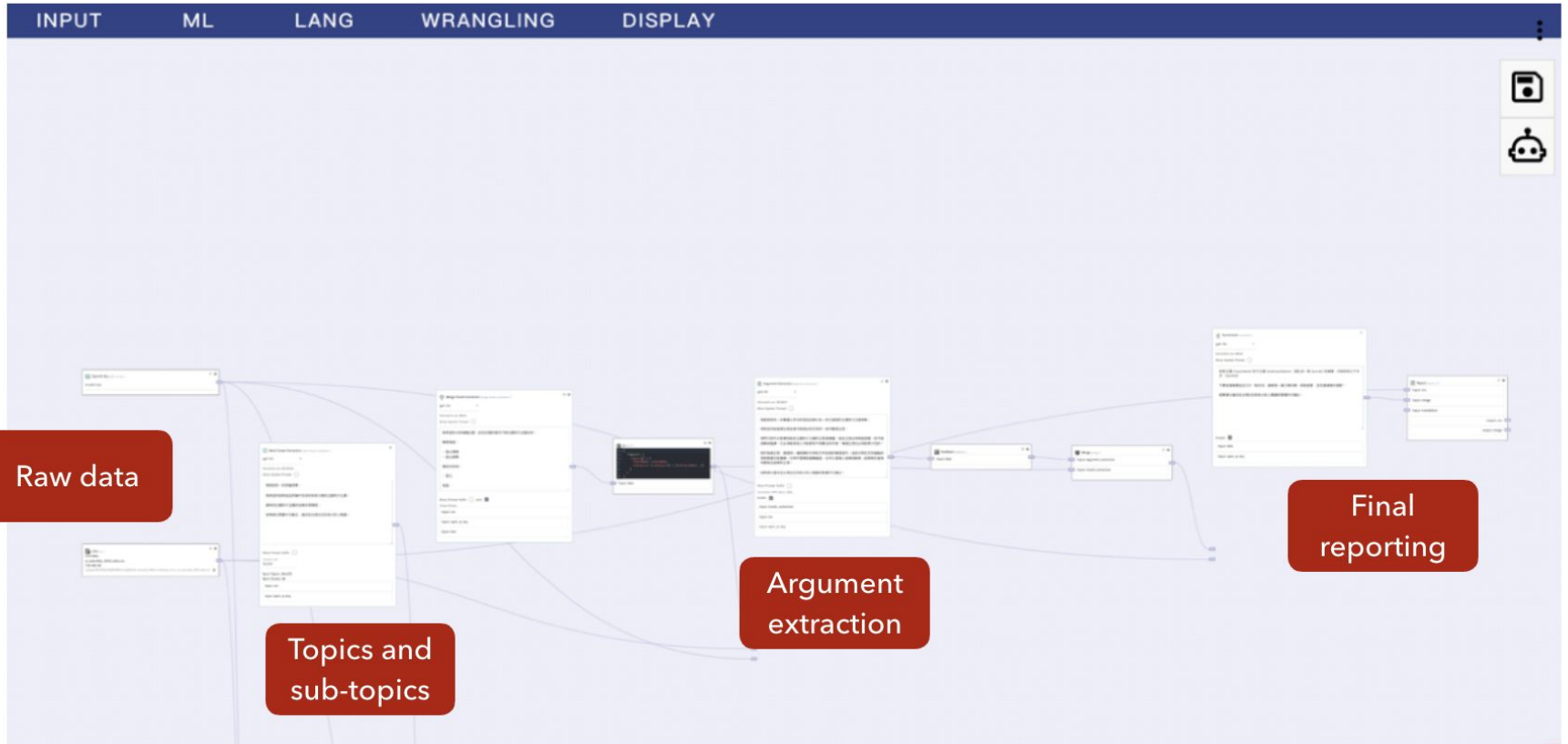
How conversation being processed as a pipeline



How conversation being processed as a pipeline

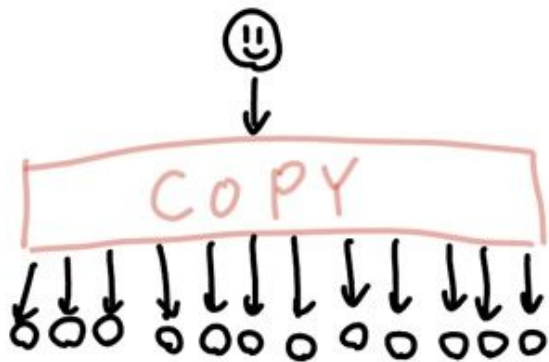


Data flow pipeline

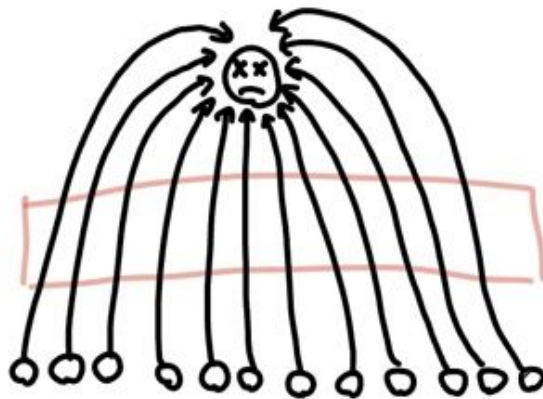


not Broadcasting but Broad-listening

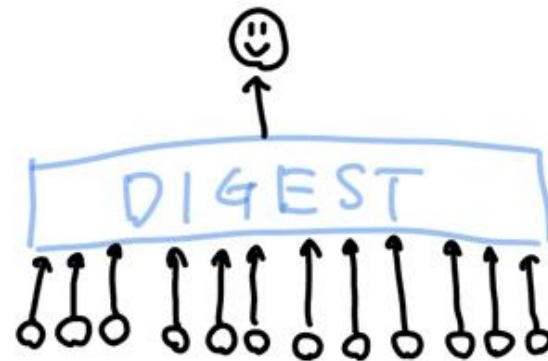
Broadcasting (~2000)

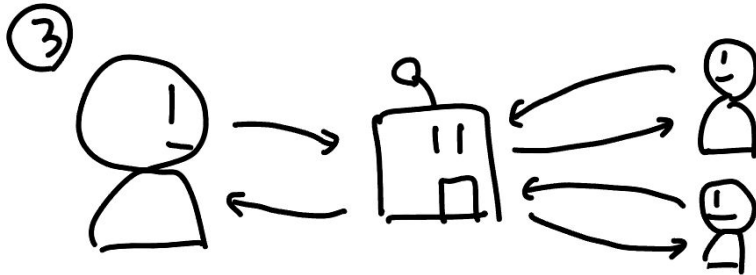
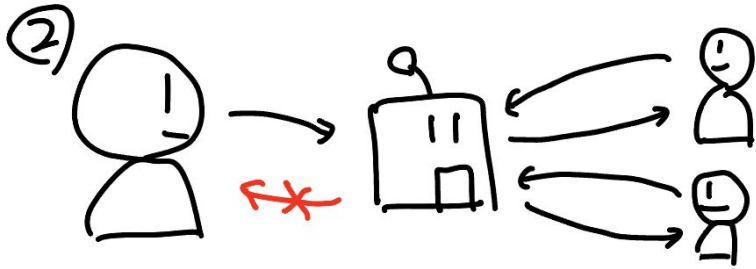
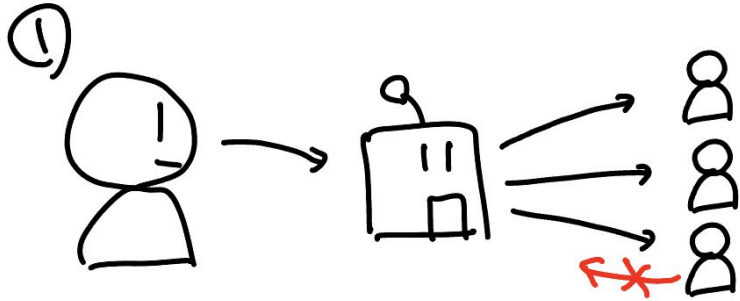


Information Explosion (2000s-2010s)



Broad-listening (2020s-)





Three Levels of Politicians and Tools

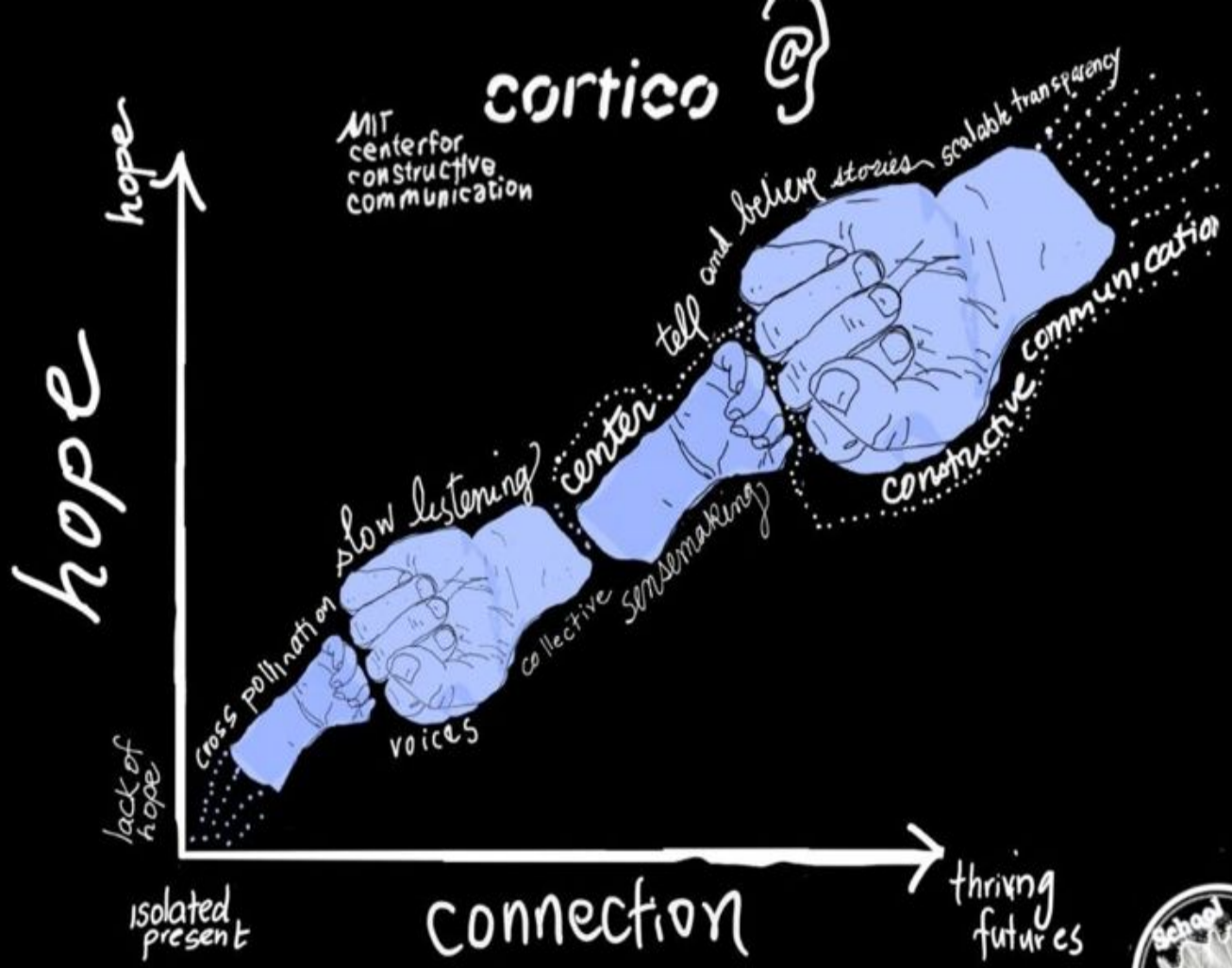
1: Broad-casting

2: Chat-bot which has RAG

3: Broad-listing

AI政治家の3つのレベル

<https://scrapbox.io/nishio/AI%E6%94%BF%E6%B2%BB%E5%AE%B6%E3%81%AE3%E3%81%A4%E3%81%AE%E3%83%AC%E3%83%99%E3%83%AB>





vTaiwan Social Issue Meetup

- Building Community through connection and cooperation.
- Fostering discussion with digital tools, with face-to-face interaction.
- Creating a space for everyone to express their opinion
- Leveraging NGOs, civil participants to build a stronger democracy.





Possibility through Linkage

Civic Tech Comm

Researching and developing
digital tools, fostering discussion

NGOs

Provide domain knowledge



Civil Participants



Digital Right v. Developers

vTaiwan 議題小聚 #2 w/ TWNIC

台灣的人工智慧規範應該考慮什麼？



12/20 (五)
18:30-21:30



TWNIC 財團法人台灣
網路資訊中心大會議室

JOIN US

Community with Open-source Initiatives

*Plurality Institute, g0v, Code for Japan,
Code for Korea, etc..*

**Thank
You**