

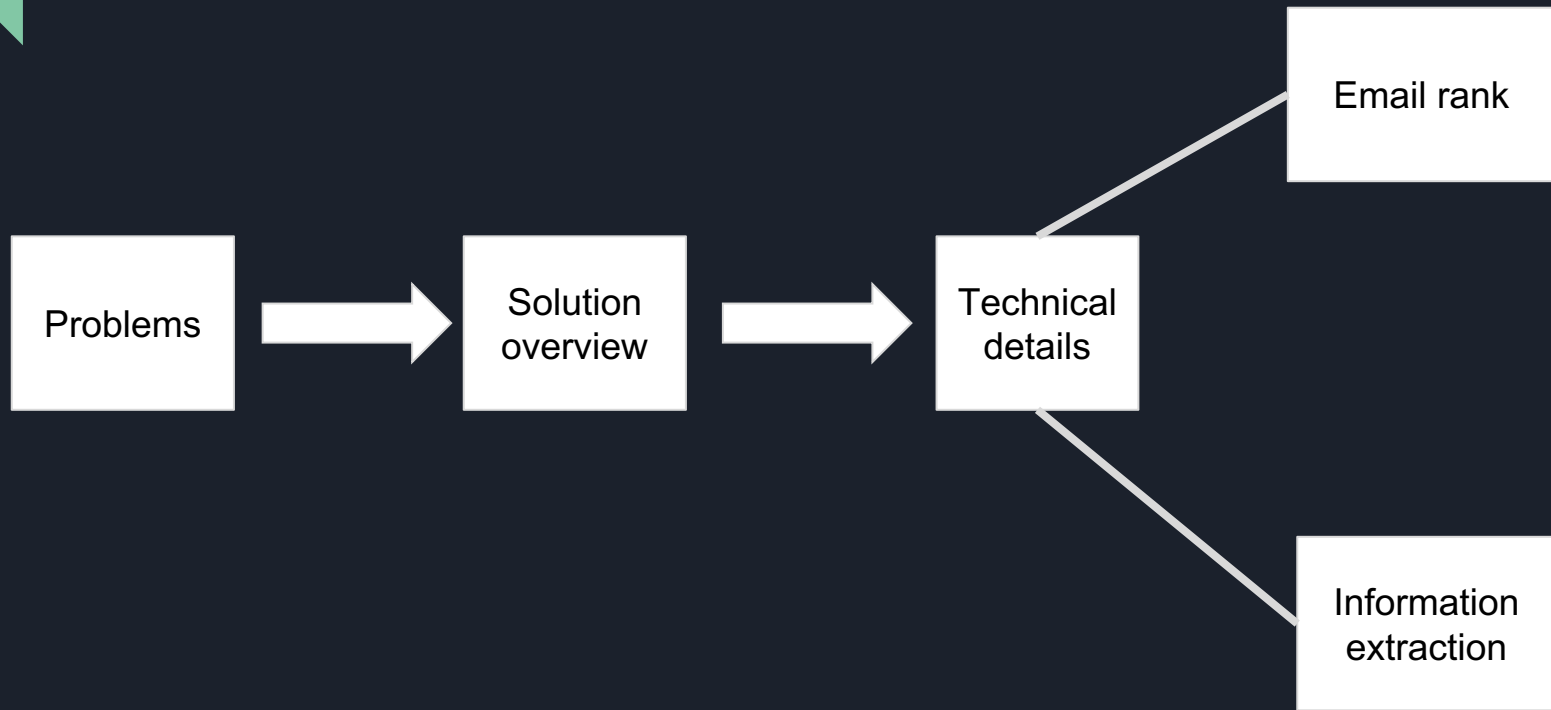


Multilanguage email summarizer

IP2



Outline



Problems

- Inefficiency
- Time wastage
- Life degradation





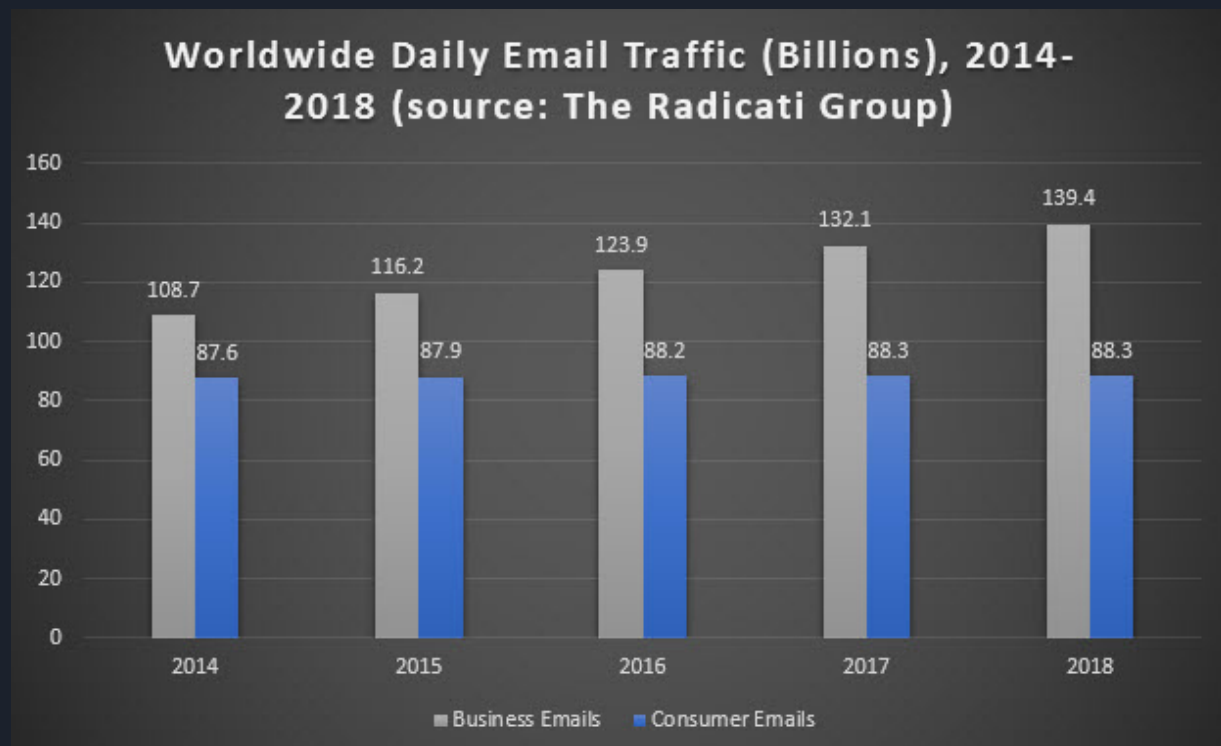
Problems

email **WORSEN** life quality of **31 %** workers

employees spend **2 HOURS** of **WORKDAY** on email

“ HBR - 2009

Problems





Contemporary solutions

- Hard rules

[CINNAMMON] [HACKATHON] Một vài lưu ý

[Cinnamon AI Labs] [IP2] Finalized Agreement

[TTGK][K53] Vương Hoài Nam - Internship information



?

Internship weekly journal



Contemporary solutions

- IBM Verse
- Google Inbox
- Microsoft Clutter



Too general

SOLUTION OVERVIEW



Solution overview

Virtual assistance

- AI powered
- Speedy
- Efficient
- Human friendly
- Designed for corporations



Email authorization



Email rank

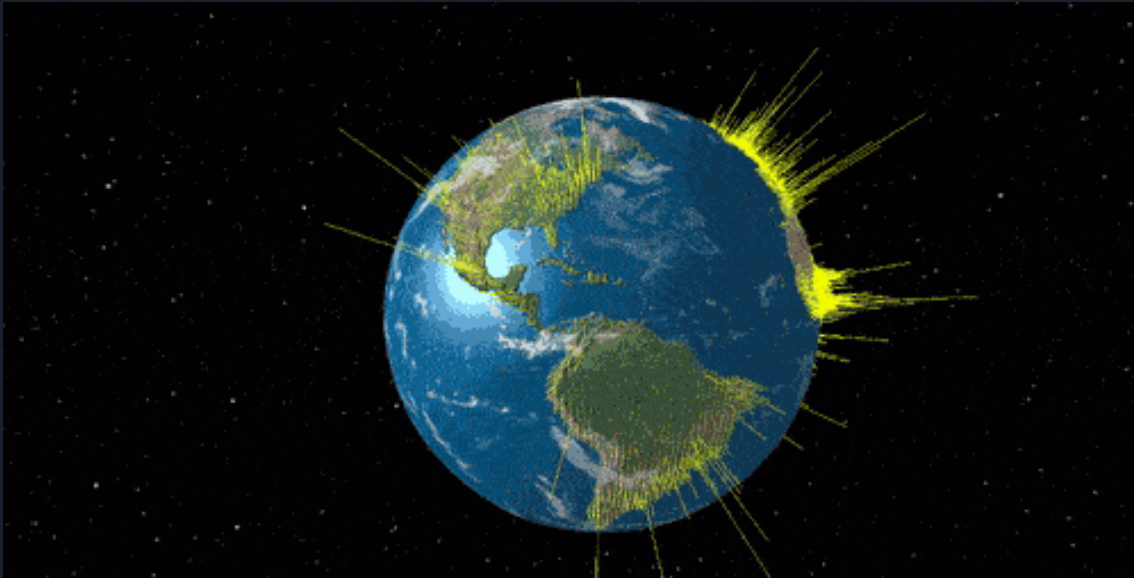


Information extraction

Demo time



Impacts

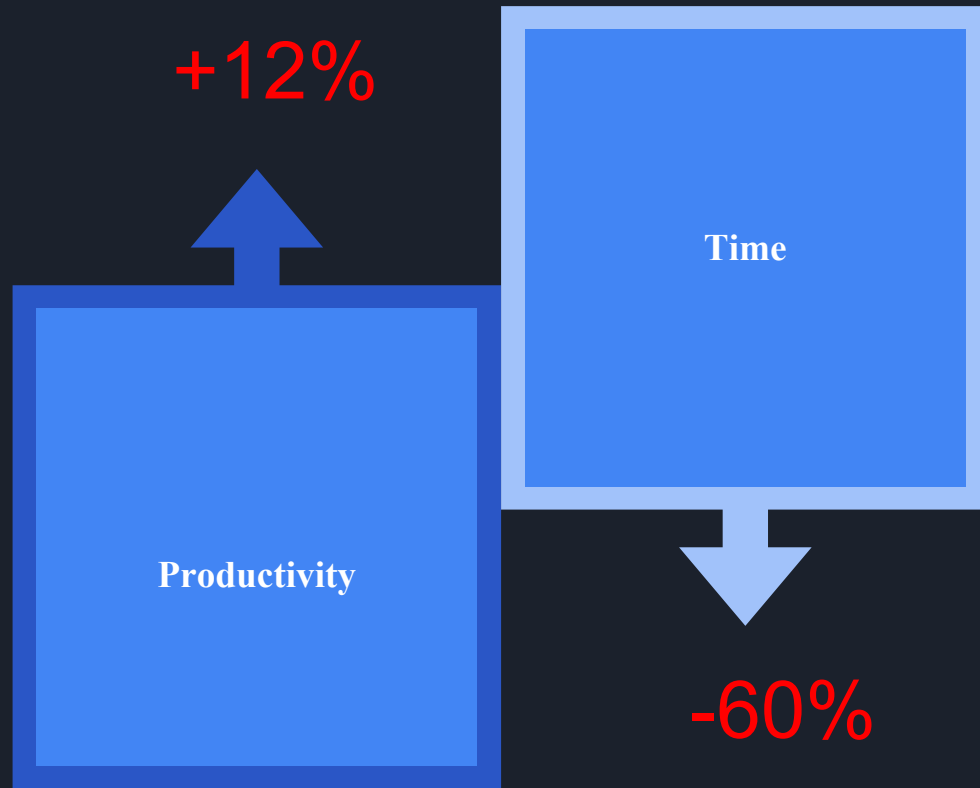


\$1,480

“ BBC - 2012



Impacts





Impacts

Save **US\$222** / person / month

For **ALL** people at the **SAME** time ?



Technical obstacles

- Multilanguage
- Fuzzy topics
- Complicated information
- Private & public email servers

TECHNICAL DETAILS

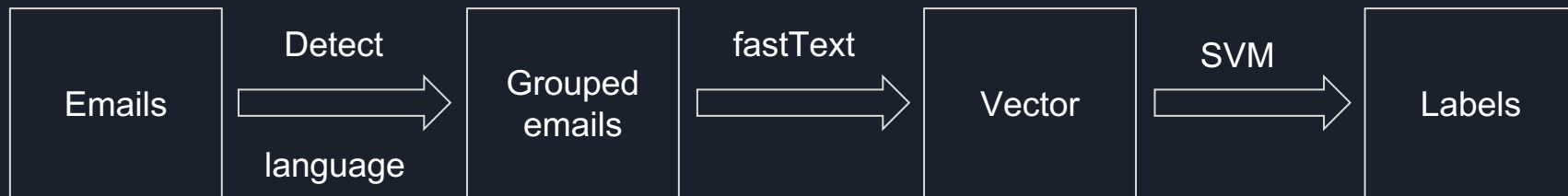


Examples

Ms. Lily would like to meet with employees this Friday to discuss the possibility of a long-term profit-sharing program. To avoid closing the offices, half of the staff should attend the meeting at 3:00 p.m. and the other half at 4:00 p.m.

Chào mọi người. Chúng tôi rất cảm ơn mọi người vì đã dành thời gian tham dự lễ tốt nghiệp IP2 của chúng tôi.

EMAIL RANK





Email classification

- Announcement	- Advice
- Complaint	- Refusal
- Confirmation	- Sales
- Appointment	- Commons
- Acknowledgement	- SPAM

Email classification

Ms. Lily would like to meet with employees this Friday to discuss the possibility of a long-term profit-sharing program. To avoid closing the offices, half of the staff should attend the meeting at 3:00 p.m. and the other half at 4:00 p.m. Please make the necessary arrangements. I suggest you review the present benefits package before attending, so you will understand all the implications of a change. This is a unique opportunity to help structure a plan for your maximum benefit. Please plan to attend.

Announcement
(conf= 0.78)

Appointment
(conf= 0.85)

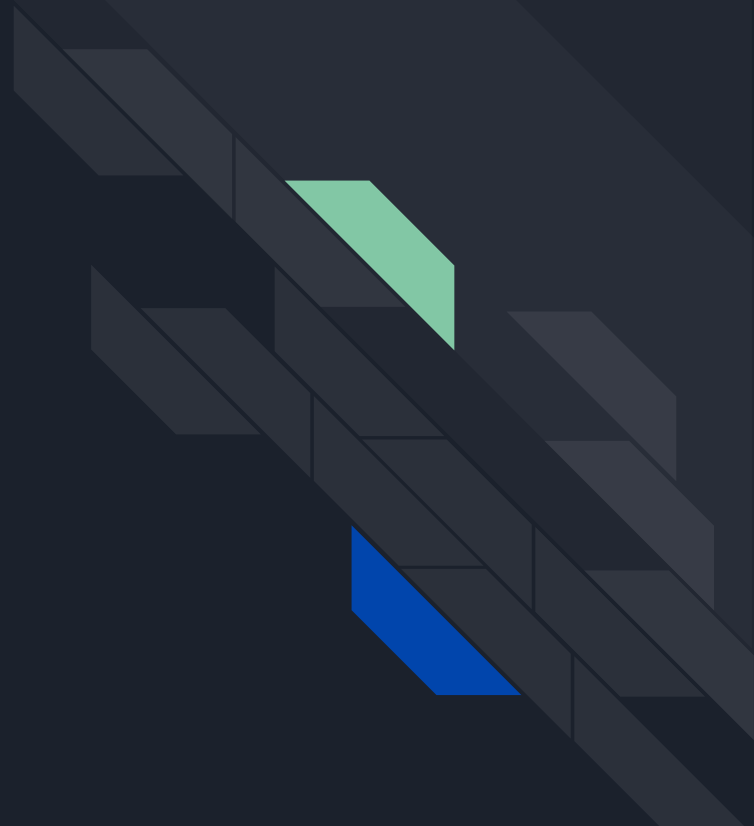
Confirmation
(conf= 0.40)

=>

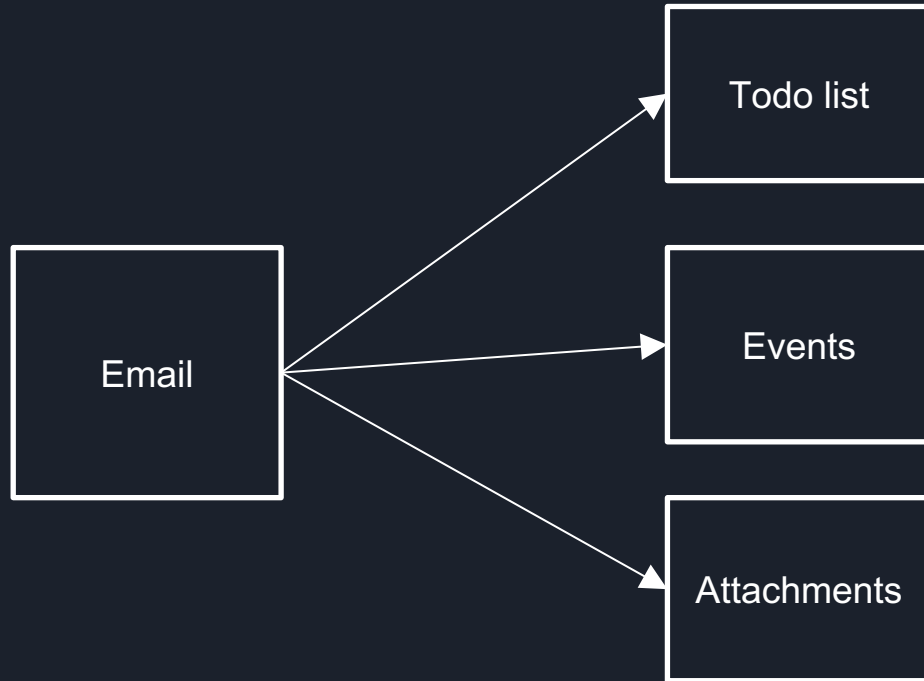
Announcement

Appointment

Information extraction



Information retrieval





Information extraction

Subject

Action

Location

Time



Email chunking

Ms. Lily would like to meet with employees this Friday to discuss the possibility of a long-term profit-sharing program. To avoid closing the offices, half of the staff should attend the meeting at 3:00 p.m. and the other half at 4:00 p.m. Please make the necessary arrangements. I suggest you review the present benefits package before attending, so you will understand all the implications of a change. This is a unique opportunity to help structure a plan for your maximum benefit. Please plan to attend.



Information extraction

Content	I am going to Cinnamon Inc. next Tuesday	<u>vuonghoainam@gmail.com</u> am going to Cinnamon Inc. Tuesday, 31st 2017
Sending time	Sunday, October 29th 2017	
Senders	vuonghoainam@gmail.com	



Compatibility

Public providers	Private providers
Gmail	SendGrid
Yahoo mail	Mailgun
Hotmail	Postmark



Future improvement

- Better compatibility
- Bigger market
- More platforms

Thank you!





Impacts to be made

Save $\$1480 * 2/8 * 60\% = \222



Privacy protection

- Article 29 Working party on Data Protection – EU
- No client email database



Solutions comparison

		Human	Hybrid assistance
100 emails	Sorting	48 minutes	2 minutes
	Information extraction	35 minutes	5 minutes