





600,000,000,000

USD

Worth of **unpaid caretaking** done by family caregiver in USA.  
American Association of Retired Persons



82,000,000,000

Hours

No. of **unpaid care hours** provided to people with dementia living at home  
Alzheimer's Disease International, 2015

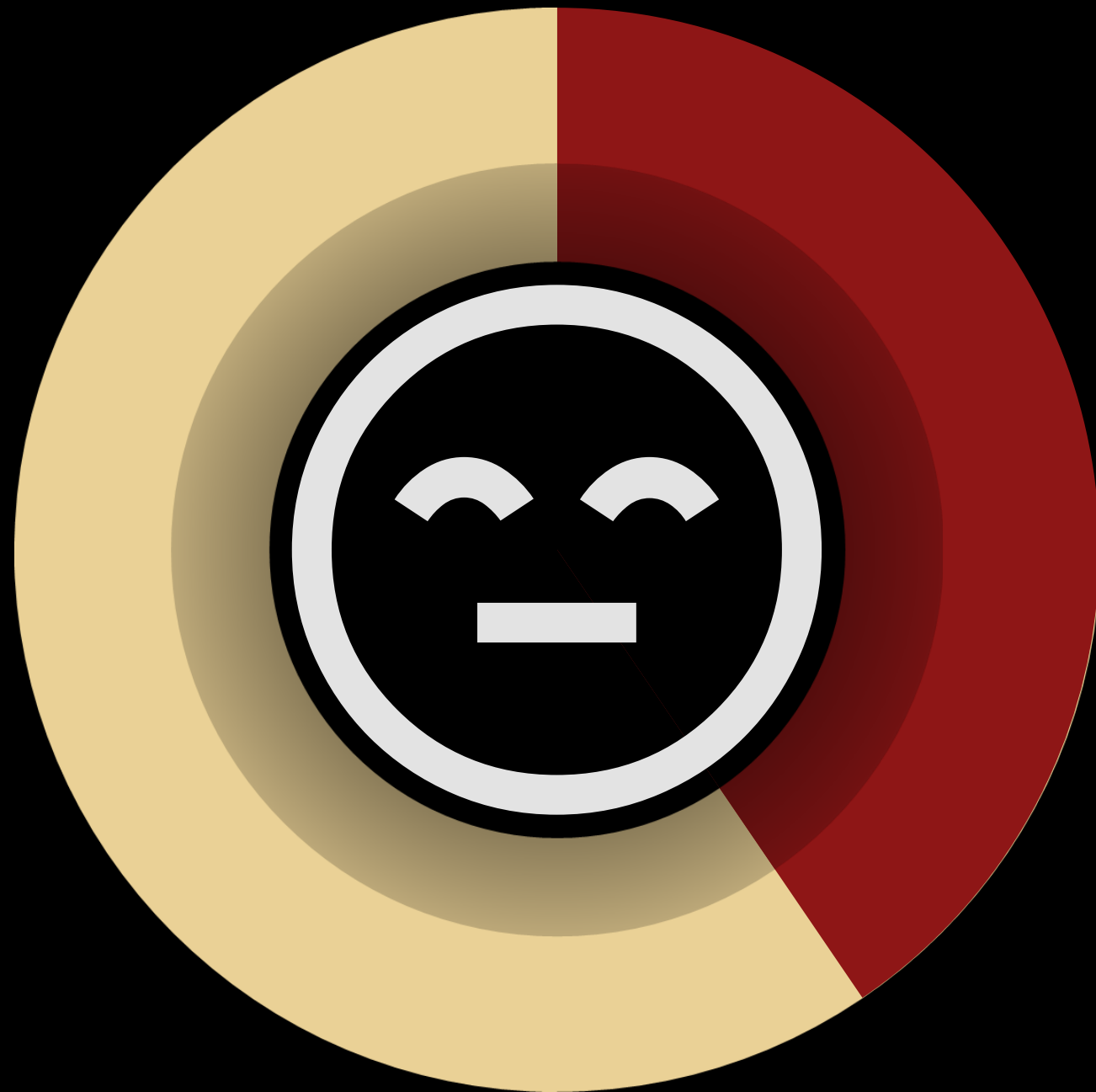


**Alzheimer's Disease  
International**  
*The global voice on dementia*

1,500,000

Caretakers

In United Kingdom who provided **50 +hours** of unpaid care a week  
Census 2021, Office of National Statistics, UK





# 40%

Of family caregiver are at risk of  
depression





# **'I worry if he's taken care of': The tears and fears of millennial caregivers to siblings with special needs**

By Charmaine Jacob | 31 Jan 2025







## 'I worry if he's taken care of': The tears and fears of millennial caregivers to siblings with special needs

By Charmaine Jacob | 31 Jan 2025

When most of our parents with disabilities need care, education and jobs, these siblings need to balance their ageing parents, the care needs of siblings with special needs, and worry if their siblings are being well taken care of." "Those that feel obligated can **often feel a sense of loneliness and helplessness**, compared to someone who is well-supported," Ms Lim said. Ms Shireen Yeo, founder of sibling support group Sibs Unite, said it was important for caregivers to share their struggles with other members of the household if possible, as well as people outside the family. "For some of us, it's the only safe space where we can talk about experiences that **other people might not understand**," she said. "There is an internal desire to meet people that can resonate with their struggles." Sisters



# **I love dad to bits - but being his career has broken me**

By Brendon Williams | 5 March 2025



# I love dad to bits - but being his carer has broken me

By Brendon Williams | 5 March 2025

A son who looks after his father for 24-hours a day says he has reached "breaking point" and is calling for more mental health support for those who care for their loved ones. Bernard Mendoza, 82, developed dementia three years ago and has been cared for by his son Danny at home ever since. Danny Mendoza, 54, from Gresford, Wrexham, said he loved his father "to bits" but had been "living like a hermit" and **the isolation had left him feeling suicidal**. The Welsh government said unpaid carers played a vital role and that it was committed to ensuring support was available. Danny has had depression for 20 years but his condition worsened after he became his father's sole carer. "It's had a huge impact on my mental health," he said. "I've never been so depressed in my life. It got to the



# I love dad to bits - but being his carer has broken me

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should have reached out earlier, but nevertheless I still feel that there should be something there in place to ensure that family carers don't reach a position where they're at burnout or in a very dark place like myself," he said.

'That is an insult'

For the past few years, Danny has been taking one break a week for four hours while his father visits a day centre. He said the loneliness of being a sole carer made him feel he had **"lost contact with the real world"**. Danny, who was forced to leave his job three years ago, said the system for unpaid carers was "totally broken" and criticised the £328-per-month Carer's Allowance he said he received. "I'm sorry, but that is an insult. I'm a 24/7 carer. Yes, he's my dad and I love him to bits, but I'm his carer and the money should at least reflect minimum wage. You've still got to live.



# I love dad to bits - but being his carer has broken me

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baseball cap. His mother Gill has her arm around him and is smiling at the camera. BBC/Brendon Williams Gill Stafford says unpaid carers can feel "invisible" and ignored Gill Stafford, 76, has been the sole carer for her son Gareth since her husband died 10 years ago. Gareth, 38, has cerebral palsy and cannot walk or talk, but plays boccia – a form of bowls – for Wales. Gill, from Abergele, Conwy, said **carers "feel like we're invisible sometimes"**. "I see people going past, through Gareth's window, and quite a few of them wave to him, which is rather nice," she said. "You just feel like going out and saying 'can you come in?'" Gill said Gareth received some social care which allowed her to get out once a week for six hours. She said a carer also took Gareth to Boccia for half a day a week, but she often goes with them so that "I'm chatting to someone". When carers are on holiday, or not available, she said: "You can go weeks without seeing



Unique Struggles

Fear of judgement

Busy Scheduel



unique struggles

Lack understanding



Fear of judgement

Silence



Busy Scheduel

Delayed Support







ISOLATION

15 FT





Social Media



Forums



Govt. / Experties

Long response  
waiting time

Global solution ≠  
Local solution

Lack of real-time  
emotional feedback

Generic information  
& Solution

"Outsiders" does not  
understand them

Hard to find  
targeted solutions

Backlashed for  
voicing their emotion



Social Media



Forums



Govt. / Expertise

Bureaucratic → Slow,  
impersonal

# PASSIVE

Lack of real-time  
emotional feedback

"Outsiders" does not  
understand them

Backlashed for  
voicing their emotion

Global solution ≠  
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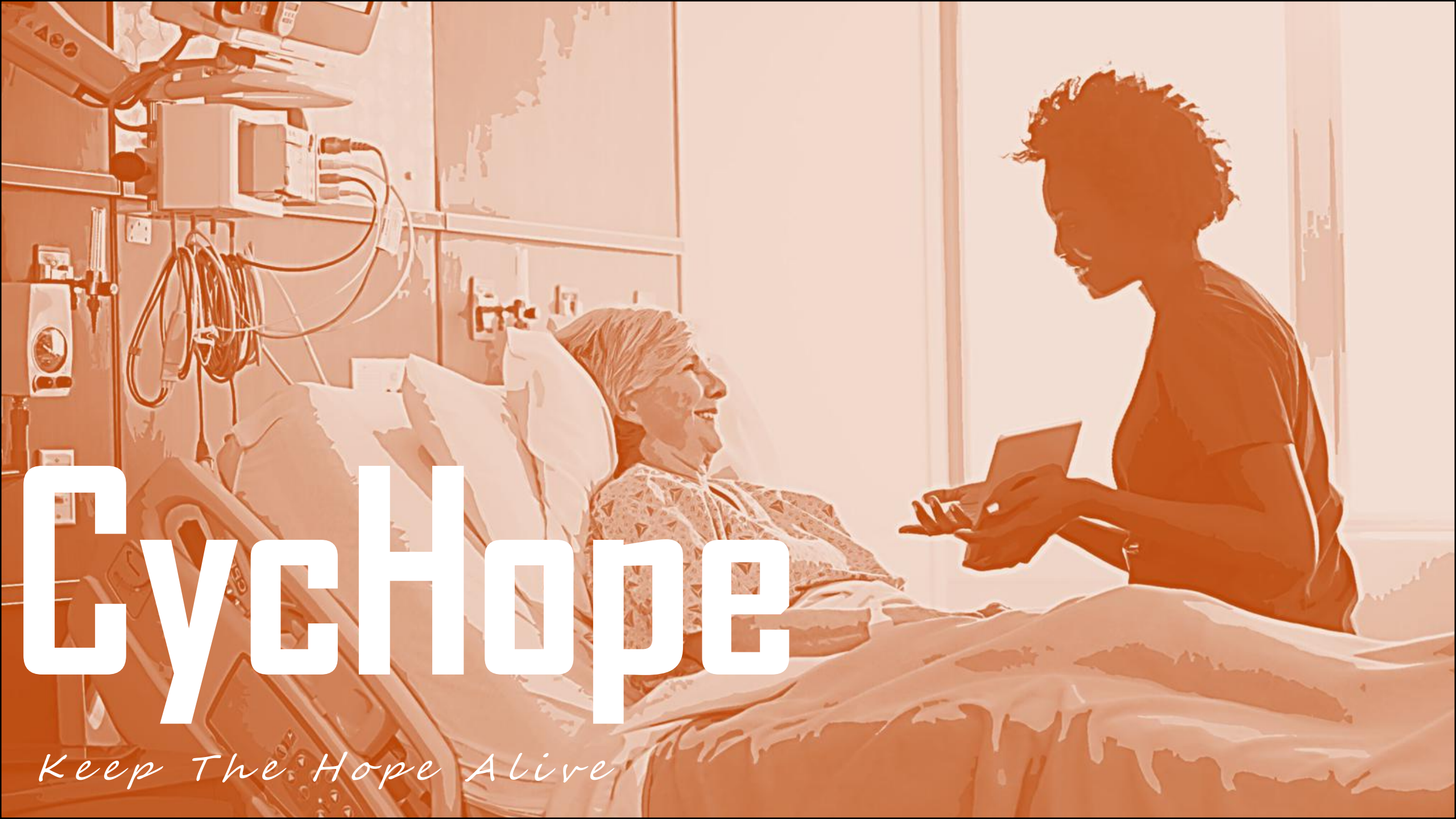
Social Media



Forums



Govt. / Experties



# CycHope

*Keep The Hope Alive*



# CycHope

Empowered by AI & Community

- Smart Support Grouping
- Automatic Emotional Support
- Bridge Information Gaps





# Infer mood from phone usage

\*Accuracy based on permission granted

Positive Emotion 

Invite user to Share Hope Message



Negative Emotion

Hope Message plays  
Immersive experience

# CycHope

Hope Sharing



# Immediate

Receive immediate support at crucial times

Real

Active

# CycHope

Hope Sharing





Immediate

Real

From caregiver, to caregiver

Active

**CycHope**  
Hope Sharing





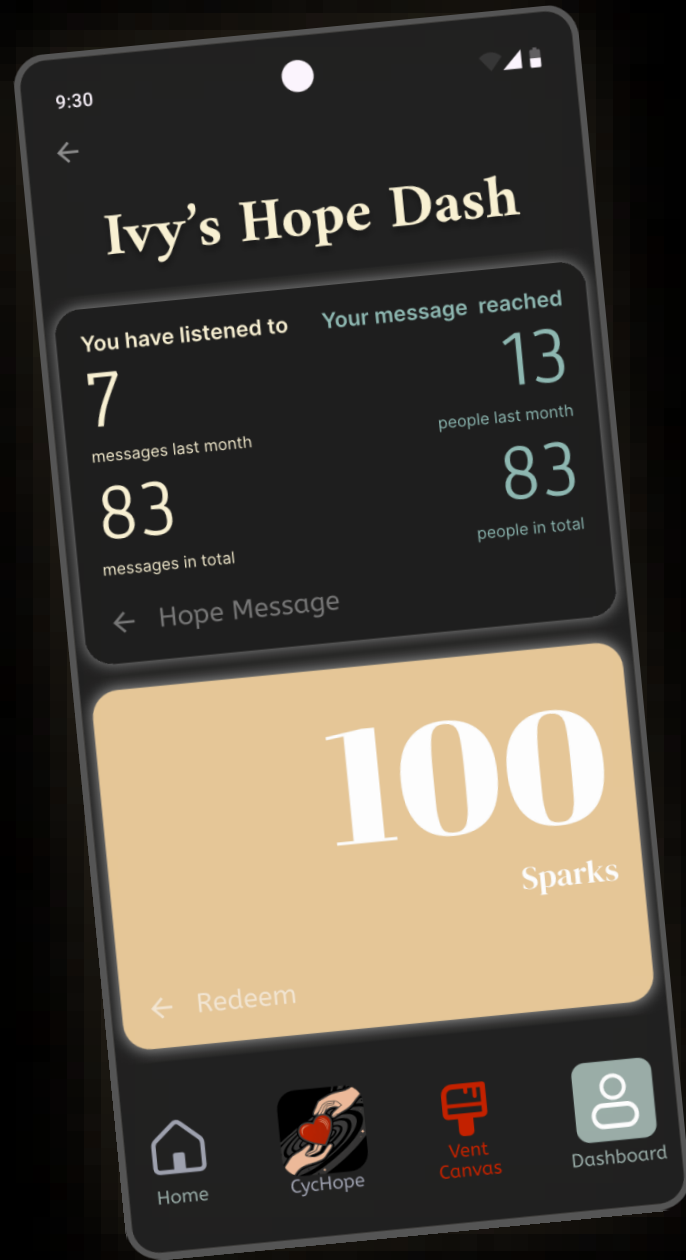
Immediate

Real

Active

Support will find its way to you,  
Not the other way around.

**CycHope**  
Hope Sharing



# Feel The Impact

Track your message

Exchange government-subsided items /  
vouchers with Sparks

**CycHope**  
Hope Sharing

A Place to express

Express Emotion, free from judgement

# Vent Canvas

A Listening "Ear"



Keep the Emotion  
Not the negativity

Your word will leave a mark

# Vent Canvas

A Listening "Ear"



9:30



CycHope

**Good Morning, Ivy**

How's your day going?

Support Groups



Singaporean Fireplace 1

3



Forgetful Fathers 3

1



Work hard play hard 19

# Designated Groupings

There's always a place for you

Caregivers in Singapore

Taking care of father with dementia

Currently working

## Smart Grouping

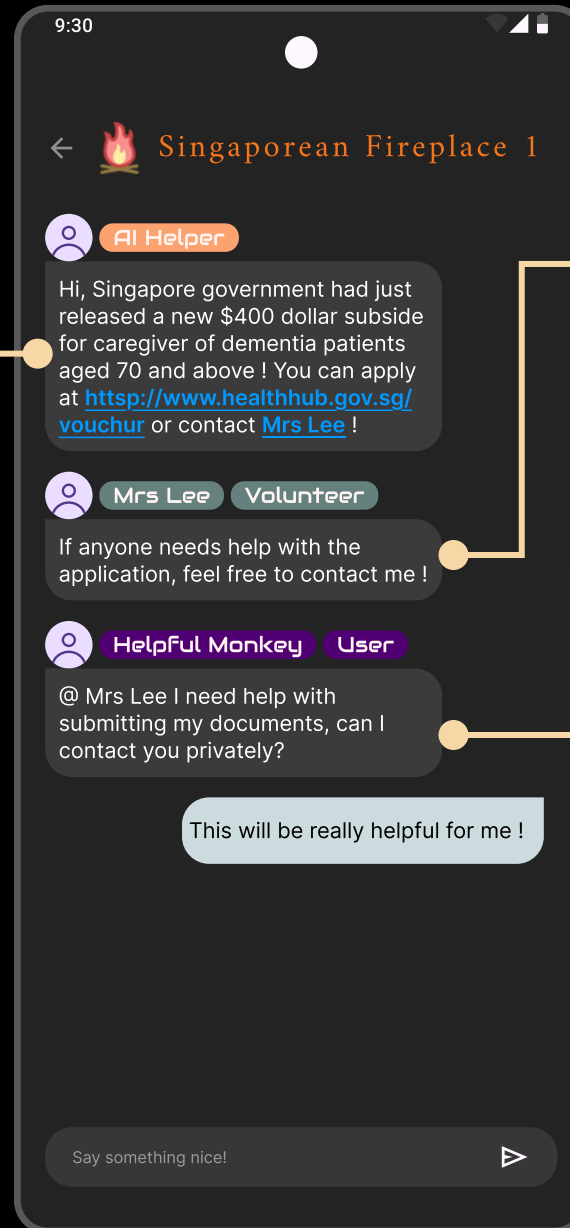
Tailored support groups

# AI Chatbot

Response when chat is not active

Learn from past users to help future batches

Disseminate targeted information for govt. and NGO



## Volunteer / Experts

Direct access to professionals, helps & resources

## Other Users

Anonymous, safe to express.

“Insiders” that gets their emotions

# Smart Grouping

Tailored support groups

Ex-Users  
Volunteers

# Feasibility

```
5 abort("The Rails environment is running in production mode!")
6 require 'spec_helper'
7 require 'rspec/rails'
8
9 require 'capybara/rspec'
10 require 'capybara/rails'
11
12 Capybara.javascript_driver = :webkit
13 Category.delete_all; Category.create
14 Shoulda::Matchers.configure do |config|
15   config.integrate do |with|
16     with.test_framework :rspec
17     with.library :rails
18   end
19 end
20
21 # Add additional requires below this line. Examples are provided for your
22 # convenience. Uncomment as needed.
23 # require 'capybara/rspec'
24 # require 'capybara/rails'
25 # require 'capybara/selector'
26 # require 'capybara/selector_helpers'
27 # require 'capybara/selector_helpers'
28 # require 'capybara/selector_helpers'
```

Message Storage



Early Stage

Dashboard  
Analysis



PostGre SQL

Later Stage



Google  
BigQuery

**CycHope**

Hope Sharing



## “Emotional Inference”

Inaccuracy

Gaining More Access

Content, facial expression, voice  
etc.

Training  
Feedbacks

From

User

Privacy

Non-intrusive monitoring

e.g. only monitor time, duration,  
frequency, of opening app.  
not content

Encrypted cloud data

Send “Surprise” messages

Disruptive

# CycHope

Hope Sharing



# Hugging Face

Free Python AI model runner

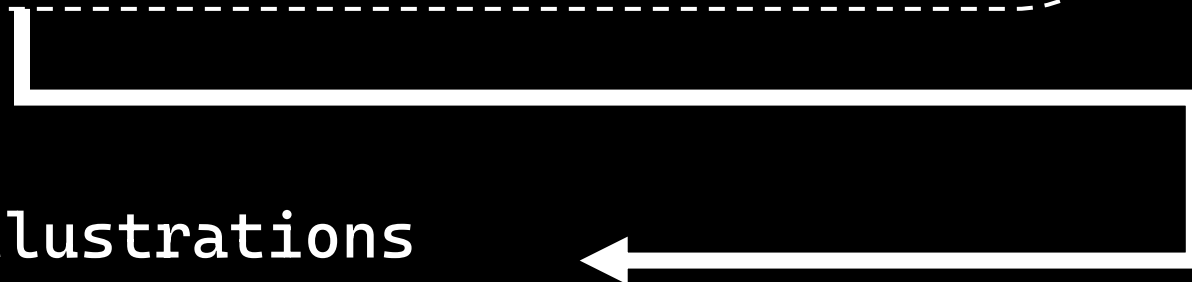
## Wave 2 Vec

Allow machine to understand  
context of speech



## Emotional Classifier

Understand context



## Front-End Illustrations

HTML CSS JS

# Vent Canvas

A Listening "Ear"

# Classification

## Directly ask for Information

If information is not provided, VentCanva & CycHope is still available.



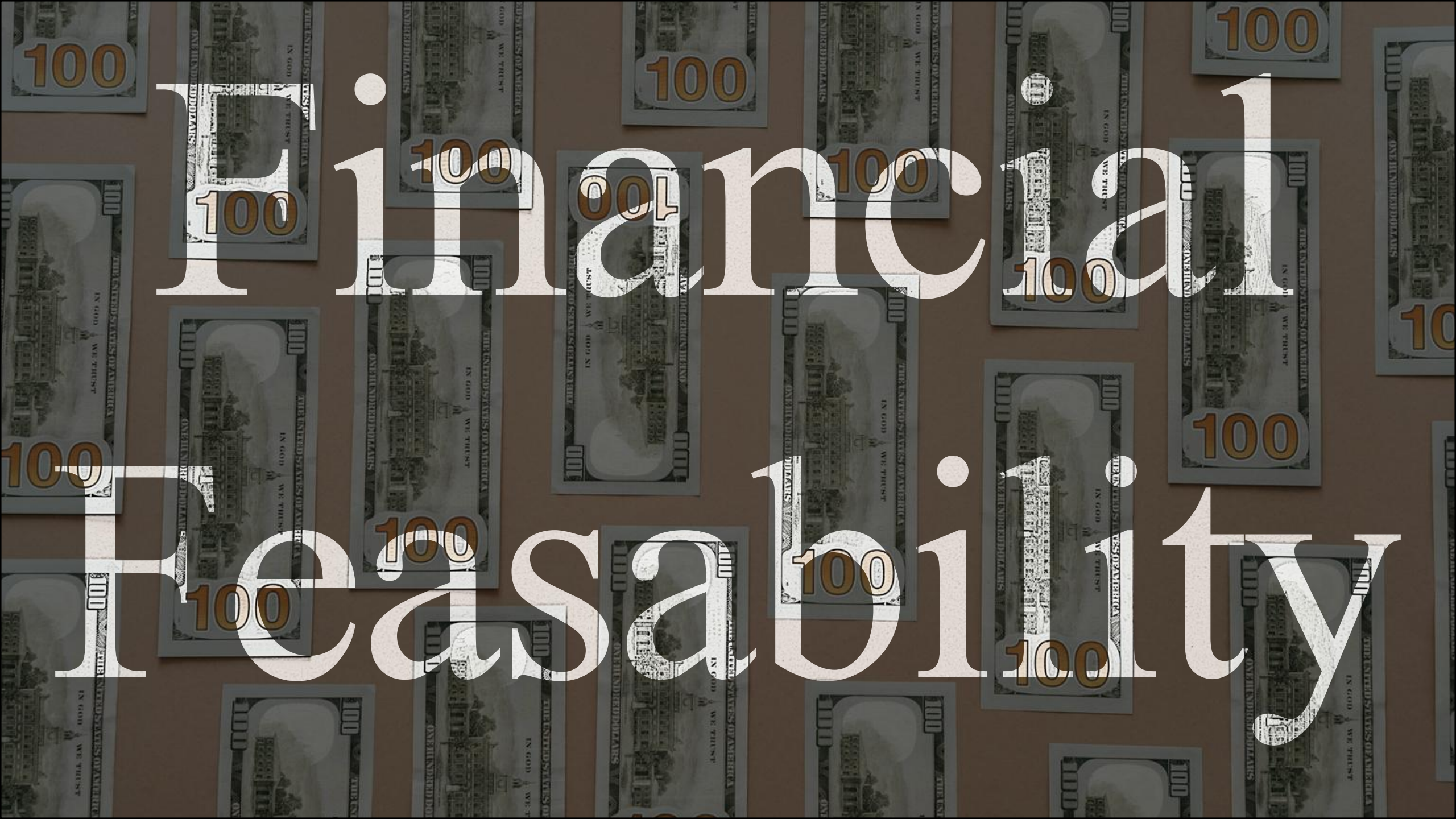
## Train AI Chatbot with past user interactions

For more accurate & humanized support for future users

Low Rank adapter to learn from user data

## Smart Grouping

Tailored support groups



# Financial Equality





## Government & NGO Grant

CycHope compliments other solutions,  
Making them more efficient



# Marketplace of VentCanvas

Emotions to Art, Art to Value

Users can turn VentCanvas art into NFTs

Revenue will be given back to community

Hosting

AI Model

App  
Development

# Cost Structure



Hosting

Serverless Hosting  
to reduce cost

AI Model

Use open source &  
pre-trained model

App Development

B2B Services  
e.g. VentCanvas





Active Users

Stress  
Reduction

Depth of  
Usage

Evaluate Impact



Active Users

Measure X Day  
Retention

Stress Reduction

Conduct Survey  
Amongst Users

Depth of Usage

Track statistic of  
each feature



# CycHope

*Keep The Hope Alive*