

Ideation Phase – Problem Statement

Team ID: : LTVIP2026TMIDS84504

Project Name: TransLingua – AI-Powered Multi-Language Translator

Maximum marks: 2 Marks

Customer Problem Statement

In today's global and digital environment, people communicate across different languages in education, travel, healthcare, business, and online platforms. However, language barriers still cause misunderstandings, delays, and exclusion.

Many existing translation tools struggle with accuracy, contextual meaning, regional dialects, and real-time performance. These challenges are more significant when dealing with complex content and low-resource languages.

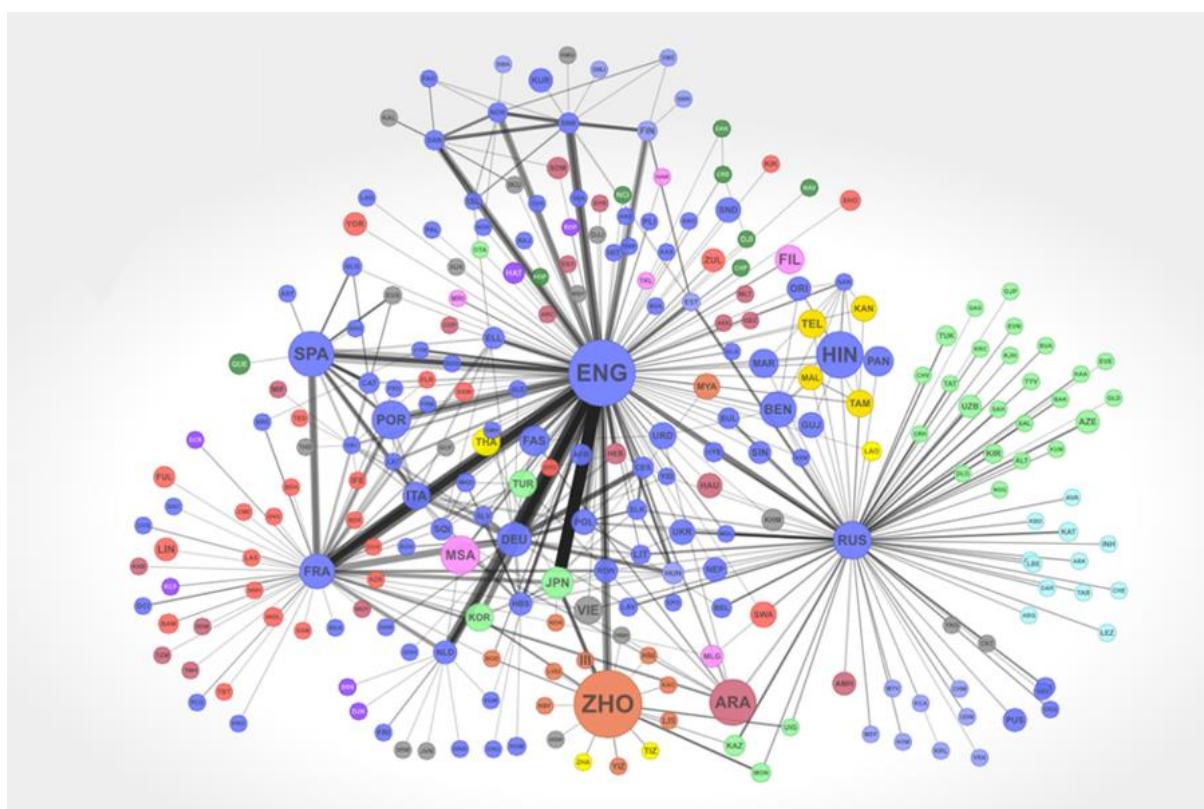
Customer Challenges

International Business Professional

I am trying to: communicate effectively with foreign clients during meetings

But: I have limited knowledge of different languages and cultural context

Which makes me feel: frustrated and misunderstood

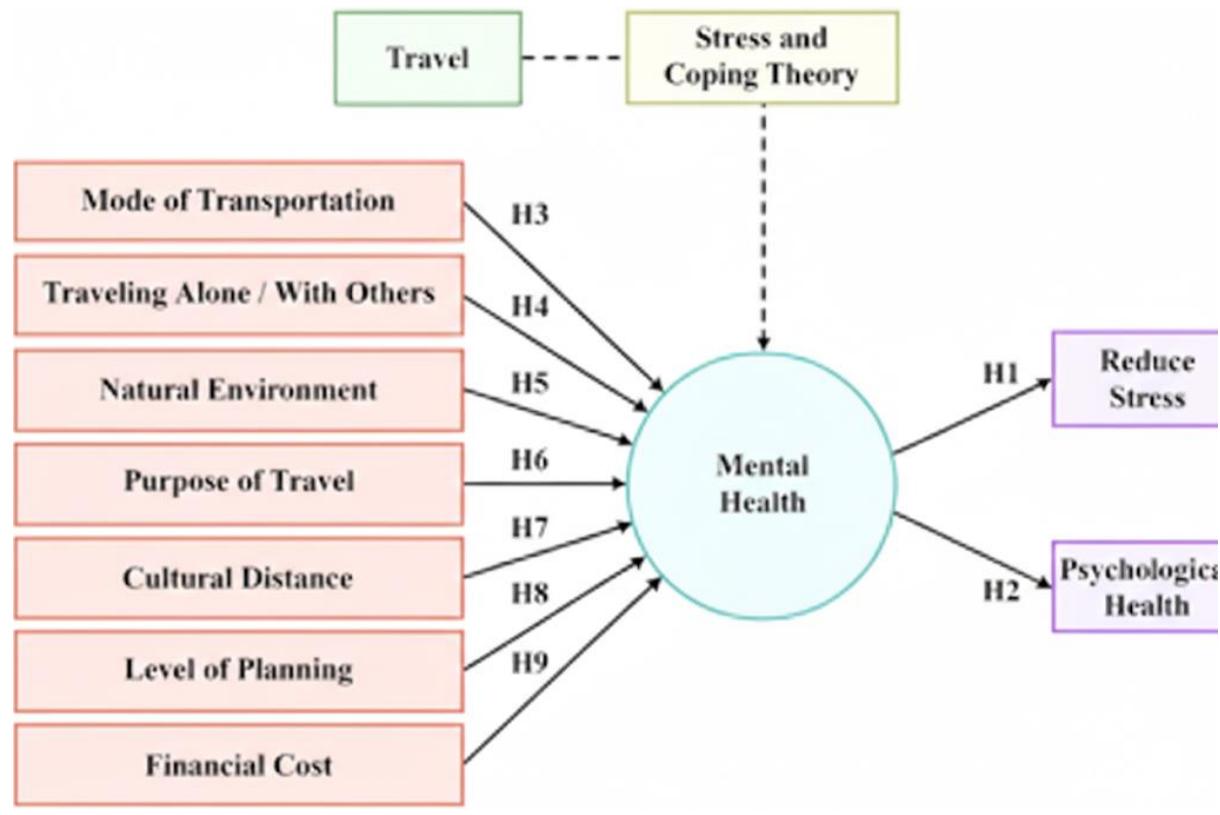


Traveler

I am trying to: communicate with locals beyond basic phrases in a foreign country

But: translation apps are slow and unreliable in real-time

Which makes me feel: anxious and isolated



International Student

I am trying to: understand lectures and academic materials in a foreign language

But: translations lack accuracy and subject-specific context

Which makes me feel: confused and stressed



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Healthcare Professional

I am trying to: explain medical information to patients who speak different languages

But: medical terms are often mistranslated

Which makes me feel: worried about patient safety



How TransLingua Solves This Problem

TransLingua addresses these challenges by providing an AI-powered, context-aware, multi-language translation system. It supports text, voice, and document translation with high accuracy and cultural relevance, enabling effective and reliable communication.

Problem Statements (PS)

PS-1: International Student

- **Trying to:** understand lectures and study materials
 - **Issue:** translations lack context and technical accuracy
 - **Feeling:** confused and stressed
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PS-2: Traveler

- **Trying to:** communicate with locals in real time
 - **Issue:** voice translation is slow and inaccurate
 - **Feeling:** anxious and dependent
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PS-3: Healthcare Worker

- **Trying to:** explain medical information to patients
 - **Issue:** medical terms are mistranslated
 - **Feeling:** worried about patient safety
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PS-4: Business Professional

- **Trying to:** communicate with global clients
- **Issue:** cultural tone is lost in translation
- **Feeling:** frustrated and misunderstood