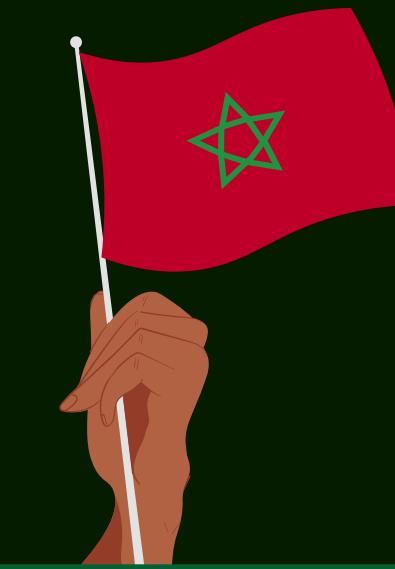




Smart
الزراعة



Smart
البيئة



PROBLEM STATEMENT



Smart
فلاج



• لحسن الزقيمي : فلاج
المغرب الأخضر

الفلاحة المعيشية

المغرب
الأخضر

MEDI 1 TV



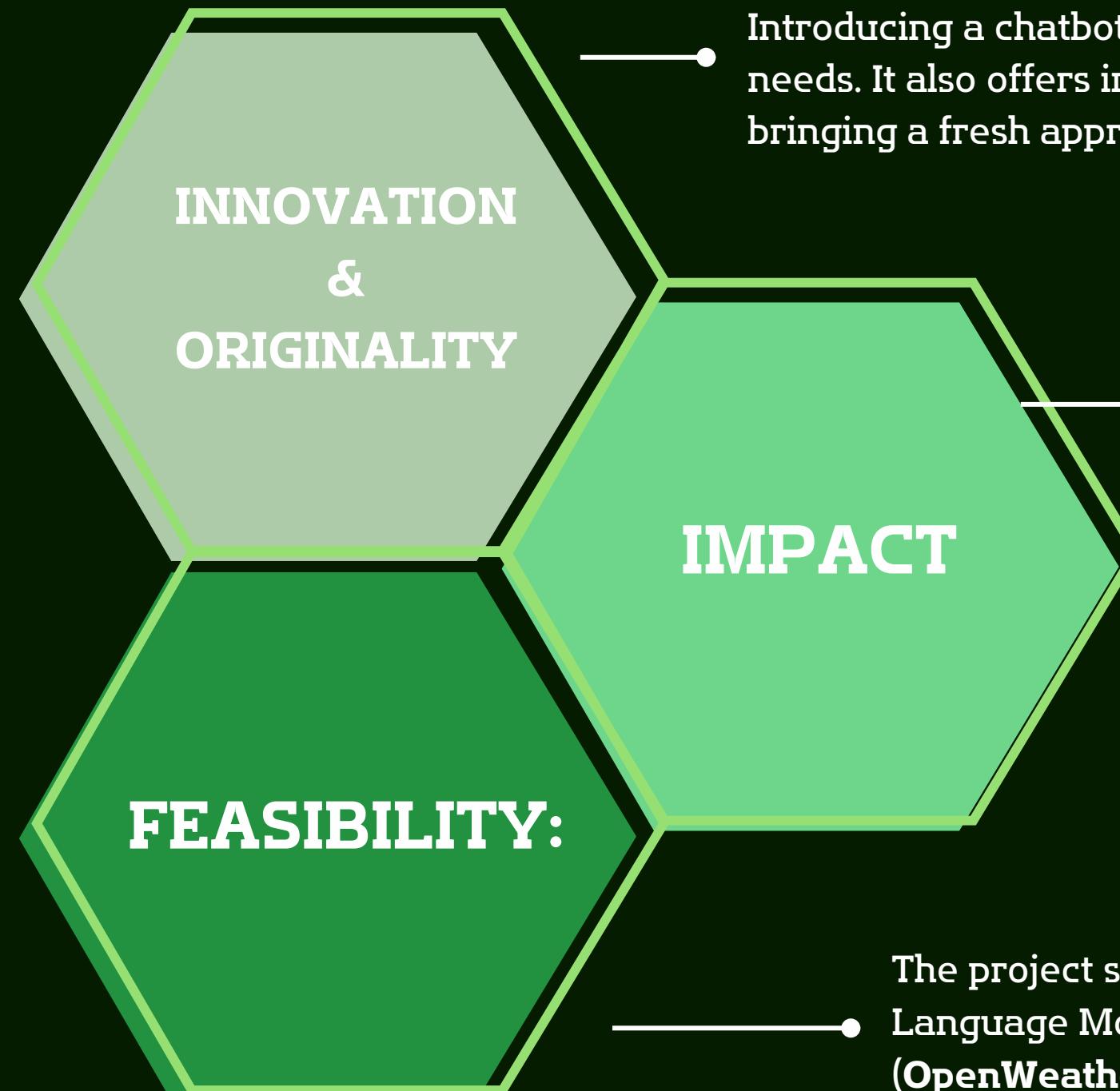
Smart
الماء

PROPOSED SOLUTION



Our solution





Introducing a chatbot in Moroccan Arabic tailored to farmers' needs. It also offers insights and personalized recommendations, bringing a fresh approach to traditional agricultural assistance.

Its potential to empower farmers with real-time insights and personalized recommendations, fostering informed decision-making and potentially increasing agricultural productivity.

The project showcases feasibility by leveraging existing Large Language Models (**Mixtral-8x7B**, **Zephyr-7B**) and integrating APIs (**OpenWeatherMap**, **Google Search Engine**).

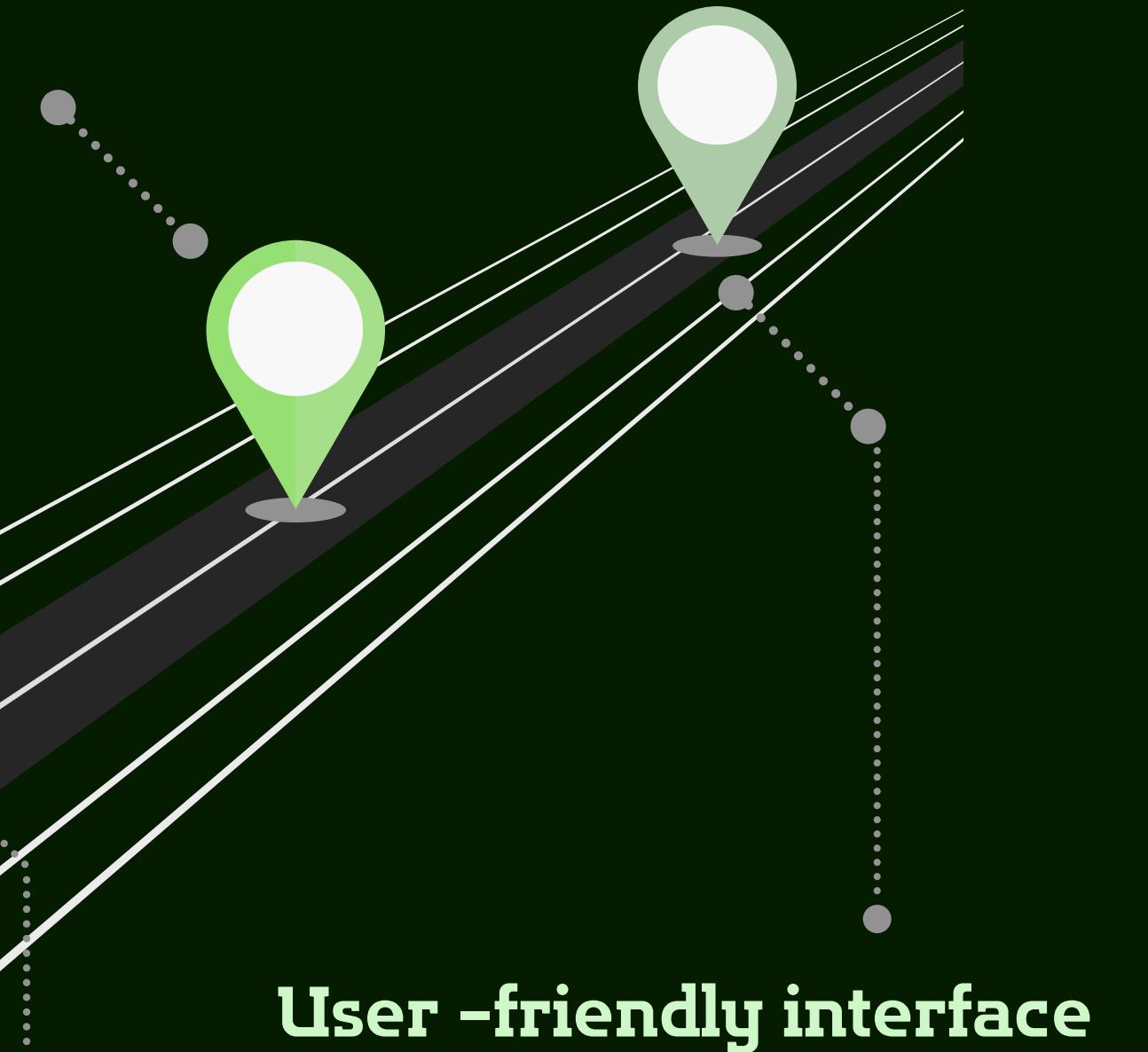


Key Features

**Customized
Recommendations**

Crop Insights

**Reference Links for
Validation:**



**Communicates in
Moroccan Arabic**



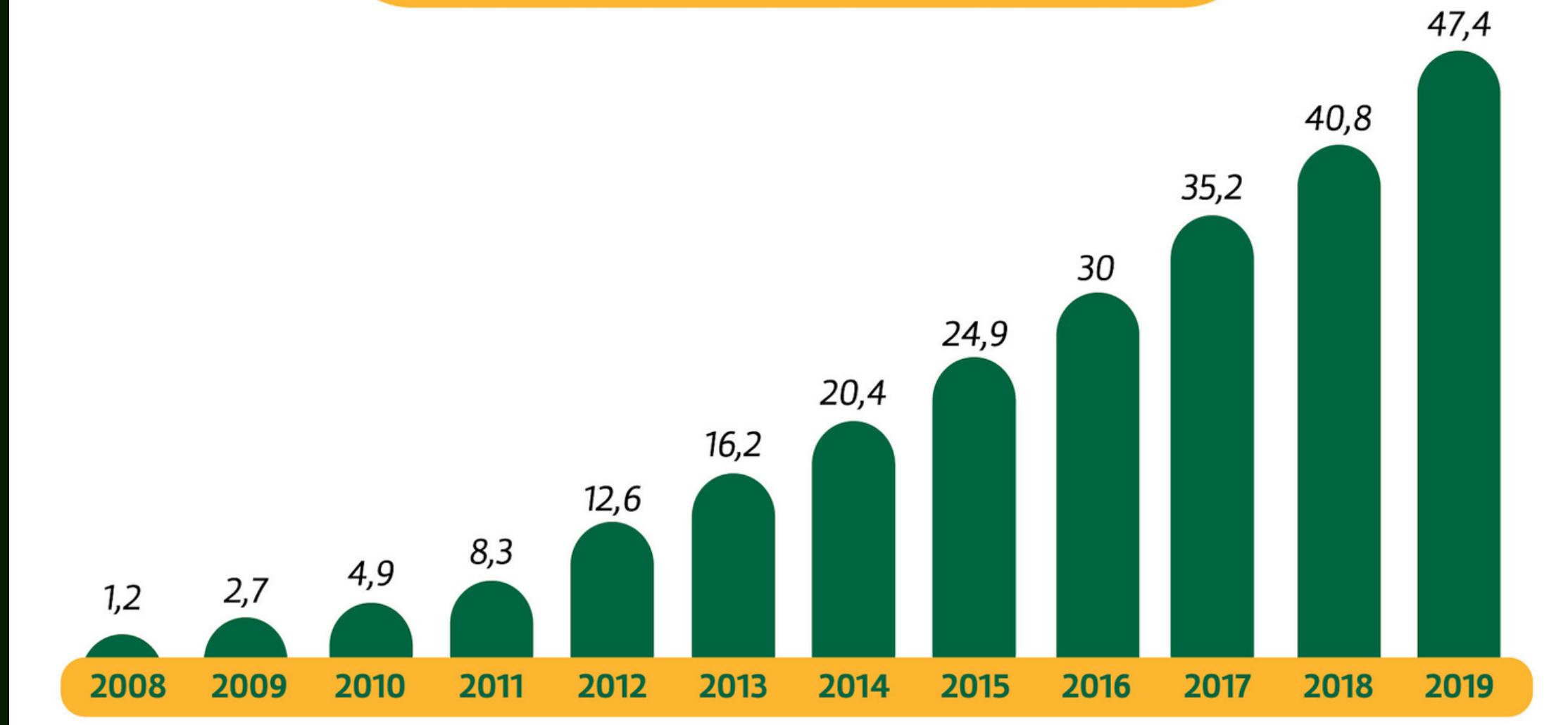
Workflow



"PUBLIC INVESTMENT HAS SEEN A SIGNIFICANT INCREASE BETWEEN 2008 AND 2019. THUS, THE TOTAL PUBLIC INVESTMENTS OVER THIS PERIOD AMOUNT TO AROUND **47 BILLION DIRHAMS.**"

SOURCE:MINISTRY OF AGRICULTURE - MOROCCO

*Investissements publics
(en millions de dirhams)*





”الارض عطيها تعطيك..”
-ناس زمان-

AI ETHICS

DATA PROTECTION

The chatbot respects privacy by incorporating features that utilize minimal user data (e.g., region) solely for providing agricultural insights.

TRANSPARENCY

The chatbot's provision of insights, coupled with the ability to suggest reference links, contributes to transparency by offering users clear explanations and justifications for the recommendations provided.

INCLUSIVITY

Design the chatbot to use accessible language (Moroccan Arabic) and ensure an intuitive user interface.

-  INTEGRATE A SPEECH TO TEXT MODEL IN MOROCCAN DARIJA
DEDICATED TO MOROCCAN FARMERS

-  REAL-TIME AGRICULTURE NEWS DETECTION (FROM ARTICLES/SOCIAL MEDIA...)

-  BUILD A MULTIMODAL LLM CAPABLE OF ANALYSING IMAGES OF CROPS/PLANTS...

MEET Our Team



Marwa EL Kamil

4th year student
majoring in Artificial Intelligence



Mohammed Machrouh

Final year student
majoring in Artificial Intelligence



Khadija Bayoud

Final year student
majoring in Artificial Intelligence

"يد الفلاح نقية" - **Unknown Fella7**



Smart
الجودة



THANK YOU!

We're just getting started!