

● RESPONSIBLE AI · FIRST-PHASE PROTOTYPE



Can AI Help Humanitarian Teams Turn Crisis Signals Into Action?

Sudan Humanitarian AI Insights

A demonstration of AI-assisted, human-led decision support for humanitarian teams.

Created by Shireen El Sabea

Synthetic demonstration data · Public humanitarian context



THE PROBLEM

Humanitarian teams make decisions under pressure



Displacement shifts fast

Populations and needs change week to week.



Feedback in many formats

Community voices arrive scattered and unstructured.



Resources are limited

Teams must prioritise where help goes first.



Insight must be explainable

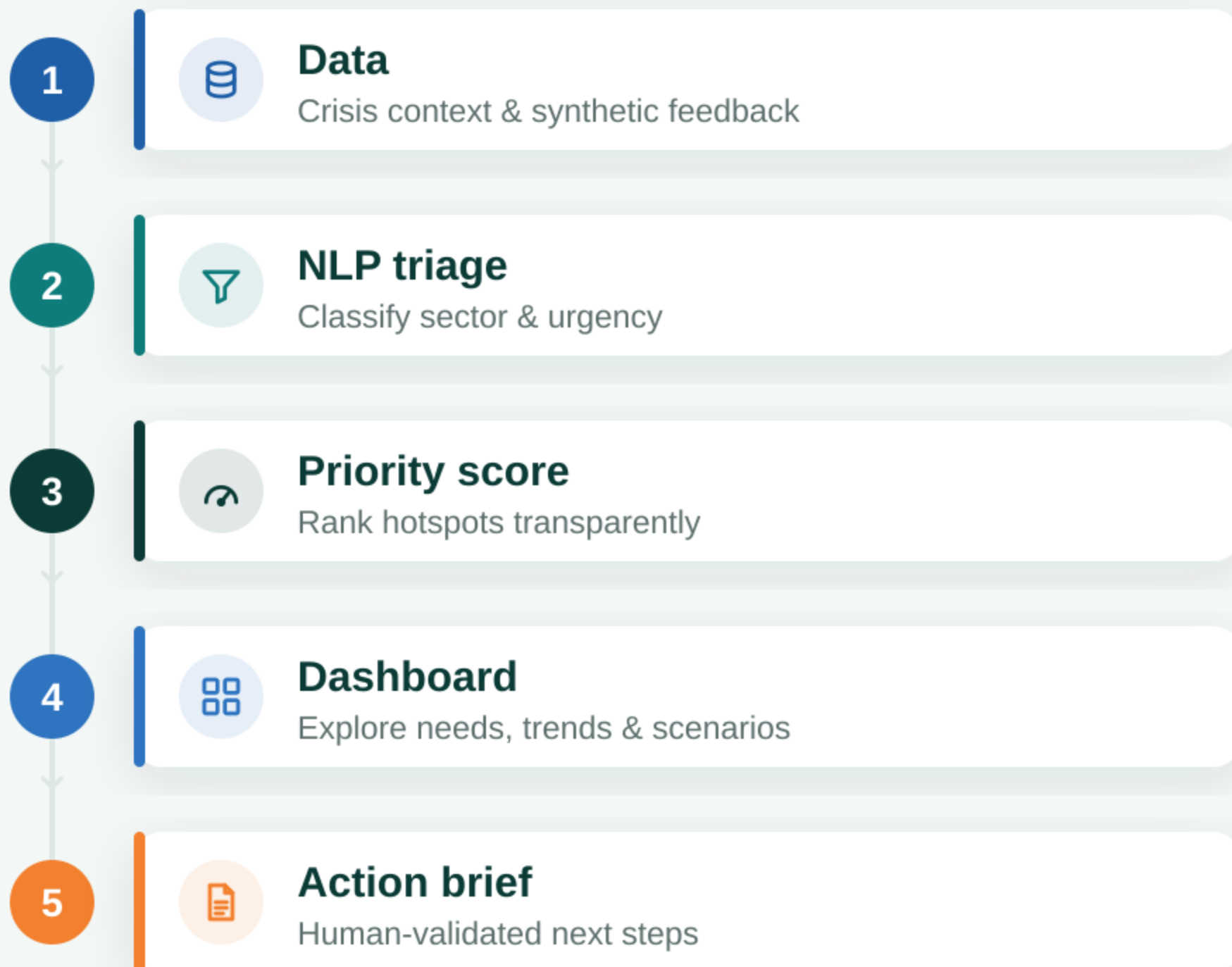
Decision-makers need clarity they can defend.



THE IDEA

From scattered signals to decision support

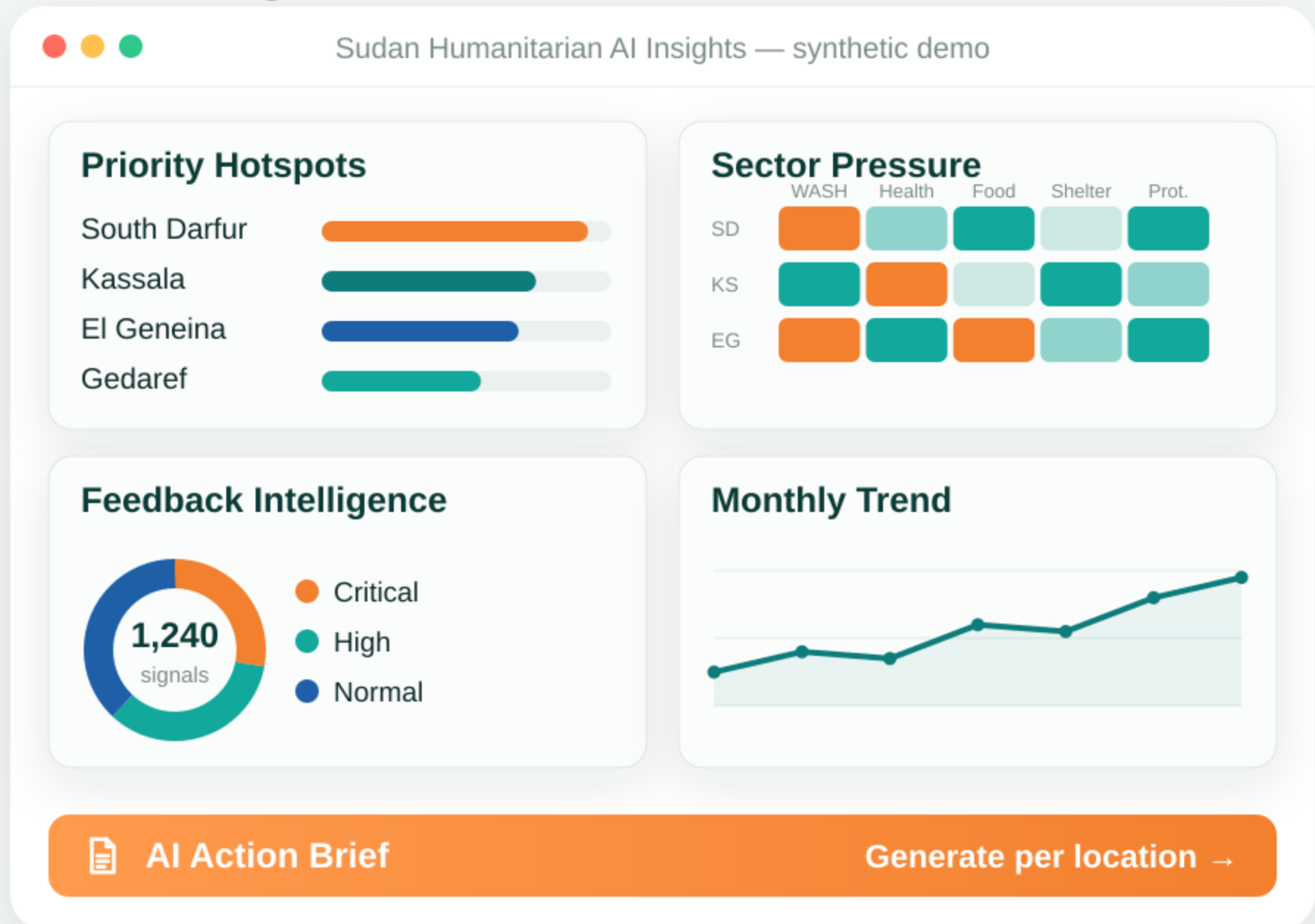
A prototype that organises crisis context, classifies feedback, ranks hotspots, and drafts action briefs.





WHAT I BUILT

Sudan Humanitarian AI Insights Dashboard



Hotspot ranking

Sector pressure matrix

Feedback intelligence

Trend & scenario view

AI brief per location



THE AI LAYER

Transparent AI, not black-box decisions

Local, explainable NLP-style classification and scoring that supports human review — never replaces it.

Example: how one message is classified



✓ No paid APIs

✓ No PII

✓ No private field data

Built for trust — privacy and transparency by default



THE OUTPUT

The most important output is action



AI Action Brief

South Darfur

PRIORITY: HIGH



Why it was prioritized

Sharp rise in WASH and health signals; new arrivals reported this week.



Top risk drivers

Water access · disease risk · overcrowding in reception sites.



Suggested next steps

Pre-position WASH supplies and deploy a rapid assessment team.



Field validation needs

Confirm population numbers and functioning water points on site.



ETHICAL GUARDRAILS

Humanitarian AI must be careful by design



Privacy first



Synthetic demo data



Human oversight



Explainable scoring



Do no harm



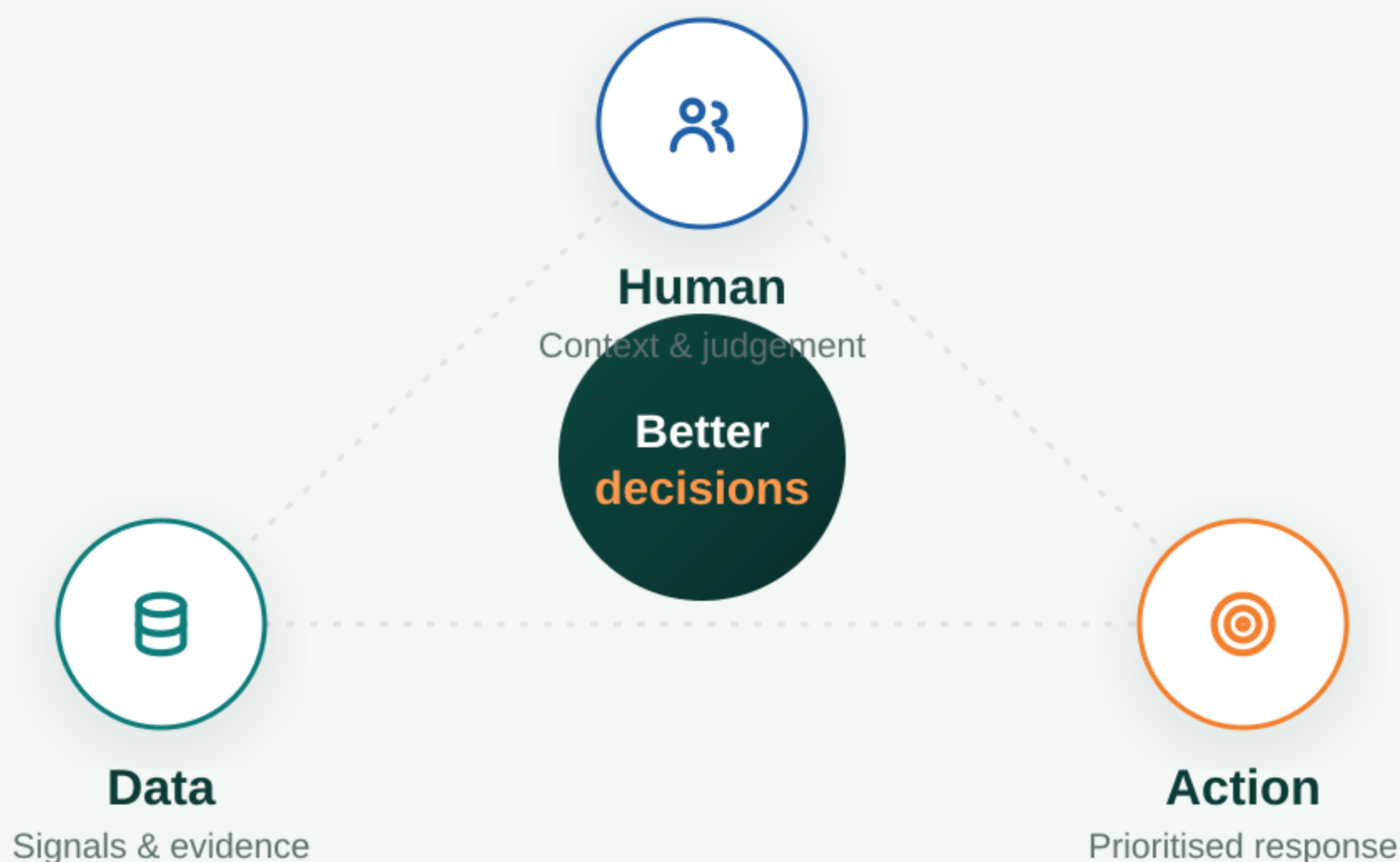
**Field validation
before action**



WHY IT MATTERS

AI should help teams listen better and prioritise faster

A dashboard like this can help NGOs discuss needs, risks and trade-offs with more transparency.



AI supports decisions.

It should not replace humanitarian judgement.



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— LET'S COLLABORATE

Let's build responsible AI for social impact

Open to collaboration with NGOs, humanitarian data teams and social-impact organisations working on responsible AI, community feedback and needs analysis.



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Responsible AI for humanitarian impact

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Public context sources: IOM DTM Sudan · HDX · OCHA · ReliefWeb · ACLED.

Synthetic demonstration data · No personally identifiable information · Human oversight throughout.