Moussaif OS Architecture Guide — Deep UX Audit

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Evaluation target: Deployed reference portal and attached read-only project clone

Primary live surface: AFRIPA BEYOND AI SYSTEMS

Executive assessment

The product has a **strong conceptual and visual foundation**. Its public stance is unusually clear: it does not sell generic AI transformation; it frames agentic engineering as a governed operating capability with explicit evidence, ownership, review, and recovery. The Opportunity Map is the clearest expression of that promise, and the research detail pages provide credible provenance, reading-time metadata, related content, and qualified next actions. The visual system is distinctive, coherent, and recognisable across the homepage, knowledge library, opportunity journey, and collaboration route. 1 2 3 4 5

The current experience is not yet reliable enough to serve as a polished public decision system. The principal issues are not aesthetic. They are **continuity, prioritisation, localization trust, and narrow-mobile reliability**. At 375px, the homepage has 20px of horizontal overflow and positions the mobile navigation toggle entirely outside the viewport. A high-value field-guide button produces no dialog, route change, or visible state change in the tested live DOM. The legacy `/inquiry` route returns a branded 404 while the canonical form is `/collaborate`. German pages translate the shell but publish visibly ungrammatical article prose and mixed-language decision modules. These are trust-breaking defects because they occur at the exact points where the visitor is asked to orient, choose, or commit. 1 3 4 6

The overall verdict is **5.8/10: compelling proposition, promising information architecture, but release-blocking interaction and trust gaps remain**. The product should not be rebuilt. It should be tightened around one primary decision model, one canonical route vocabulary, a dependable mobile shell, a real curated-entry interaction for field guides, and a localization quality gate.

> **Core diagnosis:** Moussaif OS has more content and pathways than it currently has prioritisation. The next UX phase should reduce ambiguity and increase state feedback rather than add more surfaces.

Scorecard

UX dimension	Score	Assessment
Proposition and visual identity	8.0/10	Distinctive, credible, and consistent. The governed-capability position is visible rather than generic.
Information architecture	6.0/10	Rich and intentional, but several overlapping taxonomies compete: Agentic Systems, Build systems, Knowledge as OS, Research journal, Research guides, Opportunity Map, and collaboration pathways.
Homepage orientation	5.5/10	Strong hero message, but the visitor is asked to choose between competing CTAs before the distinction is fully explained.
Opportunity Map journey	8.0/10	The strongest route: focused framing, useful sector personalization, explicit evidence model, and qualified next actions.
Knowledge discovery	6.0/10	The corpus, field guides, filters, search, and article cards are valuable, but the page is front-loaded and search feedback is incomplete.
Article consumption	6.5/10	Excellent structure and provenance cues; repeated template language reduces specificity and non-English quality is inconsistent.
Collaboration conversion	5.5/10	Trust framing is strong, but the form is long and the canonical route is easy to confuse with the broken `/inquiry` path.
Localization	4.0/10	Locale switching works in parts of the shell, but mixed-language modules and low-

		quality translated body copy undermine trust.
Accessibility and interaction reliability	4.5/10	Some controls are semantic and focusable, but the tested field-guide interaction has no visible result or dialog semantics; live labels and state feedback need a full audit.
Responsive/mobile behavior	3.5/10	Knowledge, Opportunity Map, and collaboration avoid horizontal overflow, but the homepage shell fails at 375px because the menu trigger is off-canvas.
Release confidence	6.0/10	Existing validation is substantial: 103 of 104 tests passed across 38 files, but one identity/environment test is red and live checks found issues not covered by the suite.

What is working well

The product’ s best UX decision is its insistence on **decision framing before technology selection**. The homepage, Opportunity Map, and research articles consistently ask what work needs to move, what evidence would demonstrate improvement, and what must remain reviewable as autonomy increases. This gives the experience a coherent operating philosophy rather than a collection of AI-themed pages. 1 2 5

The Opportunity Map is the clearest successful journey. It distinguishes a 25-minute discovery call from a wider strategy workshop, lets the visitor choose a sector lens, and updates the operating constraint meaningfully. Selecting “Knowledge workflows,” for example, changes the panel to approved source scope, reviewable outputs, and decision usefulness. This is effective personalization because it changes the decision language, not merely the colour or label. 2

The research article template also provides a strong foundation. A visitor receives a breadcrumb, category, reading time, title, publication date, AFRIPA Research Journal provenance, decision framing, evidence design, governance questions, related articles, and two qualified next steps. The page makes the public/private boundary explicit, which is

particularly important for a product whose commercial value depends on trust and discretion. [5]

The visual language is coherent and ownable. The dark technical canvas, blue/green accents, blueprint/telemetry motifs, restrained typography, and fixed utility controls create a recognisable system. The risk is not that the site lacks a point of view; it is that the visual and content density sometimes compete with the decision the visitor is supposed to make.

Highest-priority findings

ID	Priority	Finding	Evidence	User consequence	Recommended direction
UX-01	P0	**Homepage mobile navigation is off-canvas at 375px.**	At 375px, document `scrollWidth` is 395px and the navigation toggle is at x=396–417px, outside the viewport. At 768px it is visible at x=719–740px. [6]	A narrow-mobile visitor cannot reliably reach the primary navigation. The shell also creates horizontal drift and crowds the hero CTA with fixed controls.	Contain the ticker and header to the viewport; ensure the toggle is positioned relative to the visible header width; add a 320px/375px regression test that asserts `scrollWidth === clientWidth` and the toggle is inside the viewport.

UX-02	P0	**The curated field-guide entry interaction has no visible outcome.**	Clicking the Operating Design field-guide button left the route unchanged; the live DOM contained no dialog, body focus remained, and body scrolling was not locked. 3	The highest-value orientation path appears broken. Visitors cannot tell whether the click failed, content is loading, or the card is decorative.	Prefer a real stable guide route. If a modal is required, implement `role="dialog"`, a labelled heading, close button, Escape handling, focus capture/restore, background inertness, and a next action.
UX-03	P0	**A remembered /public `/inquiry` path is a branded 404.**	`/inquiry?type=enterprise_b2b` returns a branded 404; the canonical form is `/collaborate?type=enterprise_b2b`. 4	Old links, search results, documentation, or CTA assumptions can terminate a high-intent user journey.	Add a compatibility alias/redirect from `/inquiry` to `/collaborate`, update sitemap and all internal references, and add a route-reachability test.
UX-04	P0	**Localization quality is not safe for an expertise-led public surface.**	The German Opportunity Map contains English sector and calendar modules. The German article shell is translated, but the body contains ungrammatical phrases	Visitors may doubt the accuracy of the operating guidance and the seriousness of the commercial offer. Mixed-language decision modules	Add locale completeness and human-quality gates. If a route is not fully reviewed, explicitly fall back to English/source copy rather than publishing

			such as “Eine forschungsorientierte Untersuchung zu entwurf resilienter multi-agenten-schwärme…”. [2][5]	appear precisely where commitment is requested.	machine-like prose.
UX-05	P1	**Homepage asks for a decision before explaining the decision model.**	The hero presents “Map your opportunity” and “Book a 25-minute discovery call” before the distinction between the two is fully explained below the action row. [1]	Visitors with an early-stage question may not know which action is appropriate, while visitors ready to talk may be forced through unnecessary orientation.	Encode the distinction directly in the CTA labels: “Map one opportunity” and “Book a focused discovery call,” with a one-line “Which is right for me?” comparison adjacent to the buttons.
UX-06	P1	**Knowledge search filters correctly but does not communicate the result state.**	Controlled live DOM verification reduced the brief/article-link set from 240 combined links to 106 after searching “agent”; no result total, active-query summary, or empty state appeared. The journal remains	Users cannot tell what was searched, how many matches remain, or whether zero results means the system is empty or the query failed.	Show “106 of 200 briefs,” the active query, active category, a clear button, and a designed no-results state. Label the scope explicitly as “Search the 200 knowledge briefs.”

			separate from the filtered brief grid. 3 6		
UX-07	P1	**The Knowledge Atlas has duplicated discovery systems and excessive front-loaded density.**	The page exposes three curated field guides, a 40-article journal with category controls, then a second search/category system for 200 briefs. On mobile, the three field guides and 11 category chips create a long stacked path before the search surface. 3 6	Visitors cannot immediately distinguish “start with depth,” “read the journal,” and “search the corpus.” The strongest first task is visually diluted.	Make the primary task explicit near the top: “Search the 200 briefs.” Treat the journal as a separate editorial track and reduce the second category bar to a compact select or horizontally scrollable, labelled filter group.
UX-08	P1	**Collaboration qualification is high-burden before the first form field.**	At 375px, five route cards precede the first visible form input around y=1630px. The form then exposes multiple inputs/selects, two textareas, radios, a checkbox, and submit/booking alternatives. 4 6	The route provides useful qualification but feels like a long commitment before the visitor has received confirmation of fit.	Use a two- or three-step form: first select context and objective; then provide the minimum contact fields; then ask optional operational detail. Add a progress indicator and explain why each high-sensitivity field is requested.

UX-09	P1	**The embedded scheduler adds a large control surface before the booking decision is fully qualified.**	The Opportunity Map mounts dozens of calendar/date /time controls, while a direct-calendar fallback is also available. 2	The decision framework competes with a complex scheduling widget and can feel like a booking page before the user has chosen a route.	Lazy-load or progressively reveal the scheduler after “Book a discovery call.” Keep the direct calendar fallback visible but secondary.
UX-10	P2	**The public taxonomy is richer than the visitor’s mental model.**	Global labels include Agentic Systems Core, Build systems, Knowledge as OS, Collaborate, Research journal, Research guides, and Opportunity Map; several destinations recur in multiple panels and body sections. 1 3 5	Visitors may understand each label individually but still lack a stable answer to “Where should I start?”	Consolidate around three user jobs: **Understand**, **Map**, and **Work together**. Keep the system vocabulary as supporting language rather than primary navigation.
UX-11	P2	**Research copy is structurally consistent but often too templated.**	Article pages repeat the full title across decision framing, operating pattern, evidence design, and business-case	The site can feel generated rather than authored, weakening the authority its visual system is trying to establish.	Maintain the decision-led template but require article-specific examples, counterarguments, evidence boundaries,

			paragraphs. [5]		and one concrete “when not to use this” section.
UX-12	P2	**Persistent utilities compete with mobile content.**	Fixed ASK, language, and “Made with Manus” controls occupy the bottom of the 375px viewport; the homepage screenshot shows them overlapping/crowding the hero action area. [6]	Important calls to action and content can be partially obscured, especially on short screens and when mobile browser chrome is present.	Collapse utilities into one accessible utility button on narrow screens, or reserve a safe-area gutter and hide the vendor mark from the primary interaction layer.
UX-13	P2	**The repository validation gate is not green.**	The installed suite ran 38 files and 104 tests: 37 files/103 tests passed; `client/src/data/siteIdentity.test.ts` failed because `VITE_APP_TITLE` was undefined. [7]	Identity/title inconsistency may reach production and signals that the release process does not fully reproduce the intended environment.	Make the environment variable explicit in the test/build contract, or make the identity source canonical and test it against the deployed title.

Journey-by-journey evaluation

1. First-time homepage visit

The homepage makes a strong first impression and communicates a defensible point of view. The phrase “Build the next era of governed agentic capability” is legible and differentiated, while the supporting copy explains that the work is about boundaries,

ownership, evidence, and human hand-off rather than tool shopping. The hero also offers immediate paths for opportunity mapping and a discovery call. 1

The weakness is **decision timing**. The visitor encounters a technical brand system, a fixed status strip, a large header, two CTAs, a direct inquiry path, and later many additional services and pathways. The explanation of which CTA to choose exists, but it arrives after the first action point. The homepage would work better if it presented a compact three-way orientation model before expanding into the long-form architecture: “I am exploring a problem,” “I have a defined opportunity,” or “I need a delivery conversation.”

2. Opportunity Map

This is the product’s strongest route and should become the reference pattern for the rest of the site. It starts with a bounded proposition, explains the difference between a focused discovery call and wider operating-path planning, offers sector personalization, and presents a three-step map based on work, evidence, and accountable growth. The sector lens changes the decision language in a meaningful way. 2

The main improvement is to shorten the gap between “Map a first opportunity” and the actual calendar. The current page is persuasive but long-form. Add an in-page progress cue, a sticky or repeated “Continue to discovery calendar” action after the sector panel, and progressive disclosure for the scheduler itself.

3. Knowledge Atlas

The Knowledge Atlas is a valuable public asset. The promise of 200 briefs, three curated field guides, and a 40-article journal gives the product a real knowledge identity rather than a marketing-content surface. The content cards expose useful metadata and the research links are crawlable. 3

The primary UX problem is **competing entry models**. A visitor seeking one concept can encounter field guides, the journal, category chips, a second category system, search, and a large card grid. The system is intellectually coherent to the builder but not yet sufficiently task-oriented for a new reader. The search should be promoted as the primary utility, with a visible scope statement and strong result feedback. The journal should be framed as a separate “editorial reading” track rather than another layer of filtering.

4. Research article

The article detail page is well structured and credible. It includes a clear return path, category and reading-time metadata, provenance, a decision-led section sequence, related articles, and next steps. It also explicitly states that the content is public research rather than private operating material, which is a good trust boundary. 5

The issue is **editorial specificity**. Repeating the article title throughout a generic structure creates a sense of a populated template rather than a research note with a distinct argument. The translation issue magnifies this problem: the German shell looks finished while the body reveals low-quality generated language. The product should treat content quality as part of UX, not as a separate editorial concern.

5. Collaboration route

The collaboration route has an effective trust frame. It asks for operational context rather than secrets, distinguishes context check, fit/boundary check, and next step, offers several routes, and supplies direct booking alternatives. 4

The form nevertheless asks for a large amount of information after a long route-selection stack. The visitor may be willing to provide these details, but the interface does not yet earn the burden progressively. A short first step should establish the route and objective; only then should the system request the detailed context needed for qualification. The `/inquiry` compatibility issue must also be repaired before this path can be considered dependable.

6. Narrow mobile

The mobile experience is the largest release risk. At 375px, the homepage navigation trigger is outside the viewport and the shell has horizontal overflow. This is not a minor pixel issue: it removes access to the site’ s main information architecture for a common device width. The Knowledge Atlas and Opportunity Map are technically contained, but fixed utilities occupy valuable bottom-screen space and the Knowledge Atlas becomes very long before the user reaches its main search task. 6

The remediation should begin with a layout contract rather than individual CSS patches: every fixed shell element must be viewport-contained; the ticker must not determine document width; the header must reserve a defined right-side control zone; and fixed utilities must respect safe-area and content-clearance rules.

Recommended target experience

The site should converge on one simple public model:

User job	Primary destination	Supporting promise	Primary action
Understand the operating model	Knowledge as OS / curated field guides	“Start with a decision framework.”	Read a field guide or search the briefs.
Map a real opportunity	Opportunity Map	“Turn one constraint into a bounded evidence path.”	Map one opportunity.

Work together	Collaboration	“Bring a defined need without exposing sensitive material.”	Choose a route and start a guided enquiry.

This model preserves the existing content and governance philosophy while reducing the number of competing labels. The homepage should use these three jobs as its orientation layer; detailed terminology can remain inside the destinations and mega panels.

30-day remediation sequence

Days 1–5: remove release-blocking failures

Fix the 375px shell first. The acceptance condition should be that the document scroll width equals the viewport width at 320px, 375px, and 390px; the navigation toggle is fully inside the viewport; the ticker cannot create document width; and the hero actions remain unobscured by fixed utilities. Add automated assertions for those conditions.

Add a canonical compatibility route for `/inquiry` and update internal links, sitemap references, and public documentation. Repair the field-guide entry path by making it a real route or by implementing a tested accessible dialog. Resolve the `VITE_APP_TITLE` test failure so the identity/build environment is reproducible.

Days 6–12: make localization trustworthy

Create a route-level translation completeness check that compares rendered labels and content blocks against the active locale. The check should cover route-owned headings, sector labels, filter labels, calendar fallbacks, form descriptions, and utility copy. For research articles, require human review for the title, lead, section headings, and all body paragraphs before exposing a locale as selectable. If the complete route is not ready, show a clear “available in English” boundary instead of low-quality translated prose.

Days 13–20: simplify discovery and conversion

Move the Knowledge Atlas search utility directly under the opening promise and label it “Search the 200 knowledge briefs.” Add an active-query chip, result count, clear action, and no-results state. Collapse the duplicated category systems into one journal taxonomy and one brief-search filter model.

Refactor collaboration into progressive steps. The first screen should capture route and objective; the second should request contact details; the third should request optional operating context and consent. Preserve the direct booking alternatives but make them

contextual to the chosen route. In the Opportunity Map, reveal the scheduler only after the user chooses to book.

Days 21–30: increase authority and accessibility

Retain the article template but add article-specific substance: one concrete example, one counterexample, one evidence boundary, and one “when not to use this” section. Add a content QA review for repeated title insertion, awkward machine phrasing, and untranslated terms.

Run a full keyboard and screen-reader pass across the shell, field guides, filters, search, language selector, adviser launcher, collaboration form, and calendar fallback. Every interactive control should have an accessible name, a visible focus indicator, a deterministic state announcement, and a reliable keyboard path. Ensure `aria-expanded`, `aria-controls`, and `aria-current` are applied where the interaction model requires them.

Acceptance criteria for the next release

Area	Release-ready condition
Narrow mobile shell	At 320px, 375px, and 390px, `scrollWidth === clientWidth`; the menu trigger is inside the viewport and opens/closes by pointer and keyboard.
Field guides	Each card either navigates to a stable guide URL or opens a tested accessible dialog. Focus moves into the dialog, Escape closes it, focus returns to the trigger, and a visible next action exists.
Route compatibility	`/inquiry` resolves through a redirect or compatibility route to `/collaborate`; no sitemap or primary CTA points to a dead path.
Localization	No selected locale exposes mixed-language route-owned decision copy. Unreviewed locales fall back clearly to English/source content.
Knowledge search	The UI states its scope, shows active query/category, exposes a result count, supports clearing, and renders a designed empty state.
Collaboration	The user sees a short route-selection step before the long form, understands why

	required information is requested, and can book an appropriate alternative without losing context.
Scheduler	The embedded calendar is lazy or progressively revealed; the direct fallback remains available and understandable.
Accessibility	All dialogs, menus, filters, form fields, and language controls have names, focus states, keyboard operation, and state announcements.
Validation	The project test suite is green and includes live-route, 375px shell, locale completeness, field-guide continuity, and search-result feedback checks.

Final recommendation

Prioritise **reliability over expansion**. The product already contains enough content, visual identity, governance framing, and commercial pathways to make a strong public case. The next release should not add another section, language, or service pathway until the current system can reliably answer four questions for every visitor: **Where am I? Which path fits my situation? What changed after I interacted? Can I trust the language and the next step?**

If the P0 issues are corrected and the P1 discovery/conversion work is implemented, the experience could move from an impressive but demanding architecture guide to a dependable public decision interface. The Opportunity Map should serve as the design benchmark: bounded proposition, meaningful personalization, explicit evidence, accountable next step.

References

[1] AFRIPA BEYOND AI SYSTEMS homepage
[2] AI Opportunity Map
[3] Moussaif OS Knowledge Atlas
[4] Research collaboration and guided enquiry route
[5] AFRIPA Research Journal article detail page
[6] Reproducible 375px/768px viewport measurements and screenshots generated during this audit

[7] Accumulated rendered UX evidence and automated-validation notes