



The image shows a digital signage display with a purple background. It features several sections: 'Events' with details for 'The 2023 FIFA World Cup' (Aug 22, 2023, 08:30am to 08:30am, Qatar) and 'UEFA Champions League' (Aug 24, 2023, 09:06am to 09:06am, Brazil); a weather forecast for 'Llansanel, CY' (73°F | 62°F) and 'Patchy rain nearby' (70°F); a news headline 'All Five Members Of K-Pop Group NewJeans Set To Return To Label After Legal Battle' dated '12 / NOVEMBER 2023'; and a QR code in the top right corner. A small inset image shows two women's faces.

Digital Signage for Healthcare Facilities

From Confusion to Clarity: How Hospitals Use Digital Signage & Interactive Wayfinding to Elevate Patient Experience and Staff Communication

What's Inside

01	Elevating Experiences	3
02	Why Digital Signage Now? Healthcare Context & Adoption	4
03	Visitor, Patient, and Guest Communications	5
04	Internal Staff Communication	7
05	Interactive Displays & Wayfinding Kiosks	8
06	Benefits & ROI: What to Expect	9
07	Implementation Blueprint	10
08	Stakeholders	12
09	Total Cost of Ownership	13
10	Measurement & Governance: Proving Impact in 90 Days	15
11	Mvix in Healthcare: What 20 Years Delivers	16
12	Practical Examples & Aspirational Scenarios	17
13	Risks & Mitigations	18
14	It Delivers	19

Elevating Experiences

Hospitals and health clinics are complex environments where minutes matter and clarity is currency. Modern display networks—ranging from lobby video walls and interactive wayfinding kiosks to staff communication boards and digital patient-room whiteboards—are now foundational to safer, calmer, more efficient care journeys. Surveys and industry analyses indicate that roughly **70–75% of hospitals have adopted some form of digital communication/display system**, and recall/engagement metrics are strong (e.g., 75% of viewers recall at least one hospital screen message).

This paper lays out the two primary healthcare use cases:

- **Visitor/Patient/Guest Communications:** arrival guidance, check-in support, wait-time messaging, health education, service promotions, and interactive wayfinding.
- **Internal Staff Communications:** real-time bed status, shift handoffs, safety & quality indicators, code alerts, and intra-department updates (from ED to perioperative suites).

We quantify the upside—reductions in perceived wait times (often cited up to ~35%), meaningful improvements in patient understanding and satisfaction via digital whiteboards, reductions in navigation time with interactive wayfinding, and a material dent in the costly burden of missed/late appointments.

Finally, we provide an implementation blueprint (governance, data integrations, device strategy, content operations), realistic cost/TCO ranges, role definitions for each stakeholder, and examples from **Mvix** deployments across hundreds of healthcare facilities over 20 years.

Why Digital Signage Now?

Healthcare Context & Adoption

Hospitals are navigating throughput pressures, staffing constraints, HCAHPS-linked reimbursement stakes, and patient expectations for consumer-grade clarity. CMS ties a portion of reimbursement to patient experience scores, reinforcing the operational value of clear, consistent communication.

Across the sector, adoption is already mainstream: industry roundups and market analyses place **hospital/healthcare digital signage adoption around 70–75%** – and message recall on hospital screens is demonstrably high.

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- 95% patient satisfaction rate
- 12,000+ successful recovery plans
- Serving over 5,000 patients annually

New York, NY (US)
Updated: a minute ago

Friday
October 18
47°F / 71°F

09:37 AM

Humidity: 52%
Precipitation: 0 in

Upcoming Events

- 25 January, 7:00pm - 10:00pm
Leadership Summit
A gathering of healthcare leaders to discuss in...
- External
- 26 January, 7:00pm - 10:00pm
Med Ed Innovations
Explore innovative teaching strategies in medic...
- External
- 27 January, 7:00pm - 10:00pm
Patient Care Symposium
An event focusing on the evolution of patient-c...
- External

Place Your Logo Here

Outpatient

Bottom line: Most systems have some screens; the differentiator in 2025 is how you use them—data-driven content, interactive wayfinding, real-time operations dashboards, and integrations with EHR/bed management, nurse call, and incident communication.

Visitor, Patient, and Guest Communications

Inform & Promote

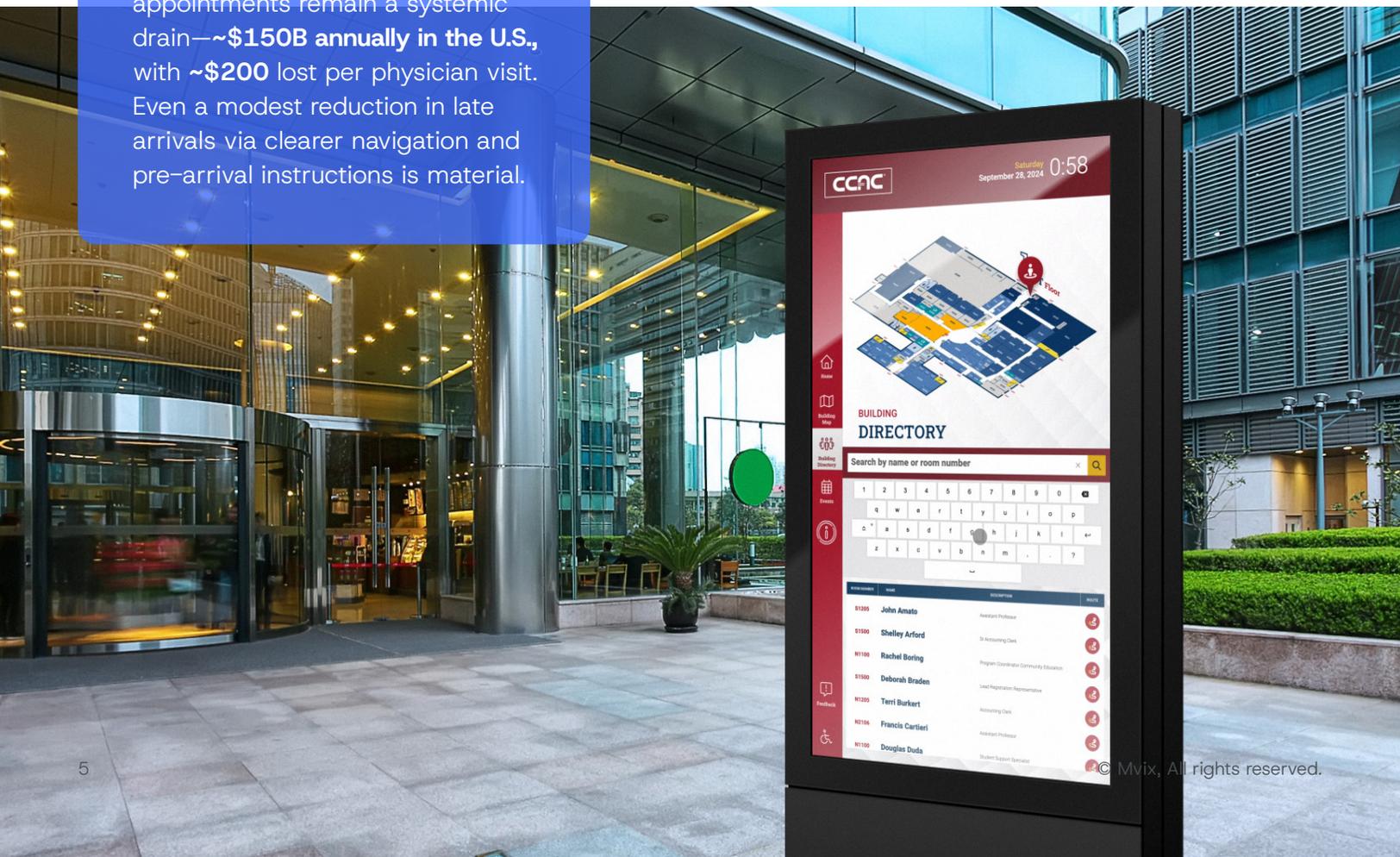
1. Arrival & Orientation: Interactive Wayfinding

Large campuses cause anxiety and lateness. Digital wayfinding reduces cognitive load, shortens navigation time, and frees staff from giving directions. A 2025 hospital wayfinding study reported **87% of users experienced reduced navigation time**, and **85% found the tool easy to use**. Multiple analyses also link **wayfinding clarity to better punctuality and lower stress**, with credible cost models estimating **up to ~\$500,000/year** in staff time and inefficiency costs tied to people getting lost.

Financial Lens: Missed or late appointments remain a systemic drain—**~\$150B annually in the U.S.**, with **~\$200** lost per physician visit. Even a modest reduction in late arrivals via clearer navigation and pre-arrival instructions is material.

Design Patterns That Work

- **Interactive Campus Maps/Kiosks** at entrances, parking elevators, and high-decision nodes; “blue-dot” indoor navigation on mobile for last-ten-meters clarity.
- **QR-to-Mobile Handoff** for step-by-step routing and language accessibility.
- **Contextual Prompts:** “You’re 6 minutes away; elevators B are on your left,” with ADA-friendly touch targets and contrasting colors.



2. Waiting Areas: Expectations, Education, and Calm

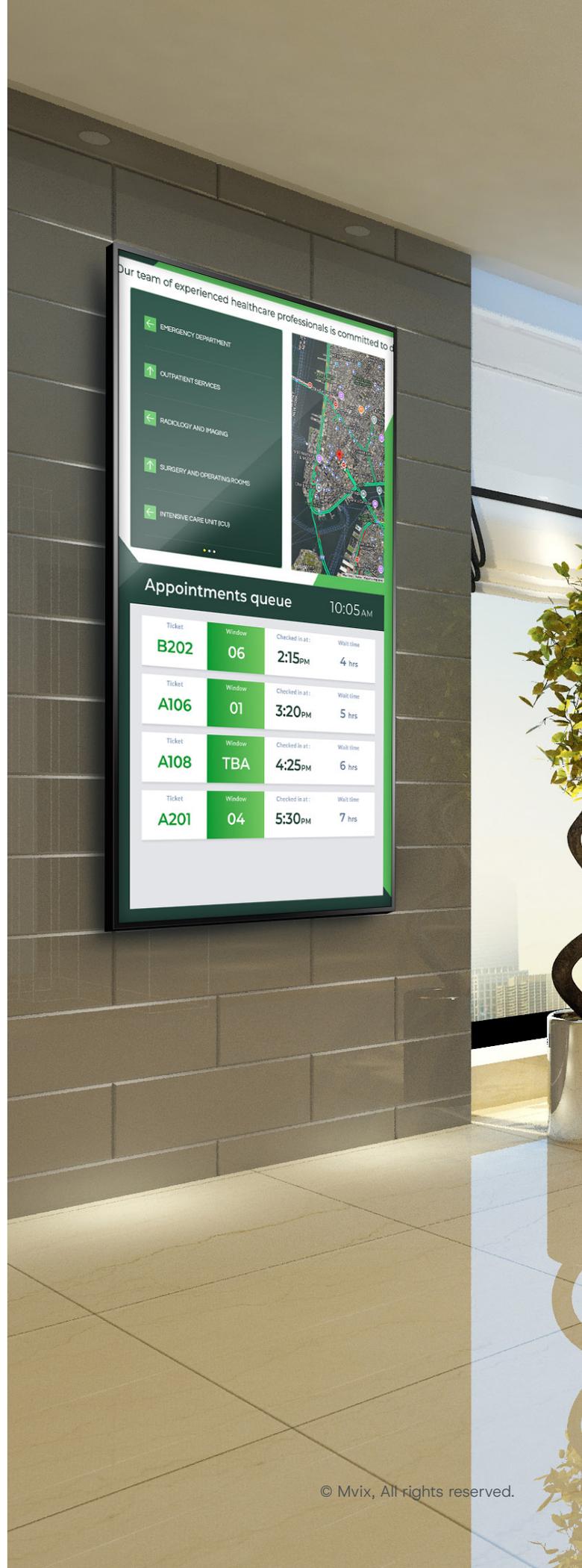
Well-planned waiting-room content meaningfully **reduces perceived wait times** (often cited up to ~35%), improves mood and primes patients for care. Health education loops, prep checklists, and preventive-care reminders raise awareness and close gaps.

Content Mix That Performs

- **Live Queue/Status Messaging** where appropriate (urgent care, imaging).
- **Shortform Education** tailored to service line (cardiology risk factors, post-op care, vaccination schedules).
- **Service & Amenity Promotions** (cafeteria hours, pharmacy pickup, financial counseling), measured against wayfinding and throughput KPIs.

3. Clinics & Ambulatory Sites: Arrival Flow and Service Uptake

At smaller sites, a pair of well-placed screens (front desk and back corridor) can increase awareness of **self-service check-in, text-to-queue, or portal enrollment**, while guiding patients to exam rooms and ancillary services (lab, imaging) efficiently. The cumulative effect is fewer bottlenecks and calmer staff.



Internal Staff Communication

Nurses, Physicians, Allied Teams

1. Unit-Level Digital Boards and Bedside Whiteboards

Digital patient-room whiteboards and unit boards foster **shared mental models**, elevate patient comprehension, and are associated with **higher patient activation/satisfaction** in multiple studies. In emergency departments, **digital/e-paper status boards improved patient perception and access to information.**

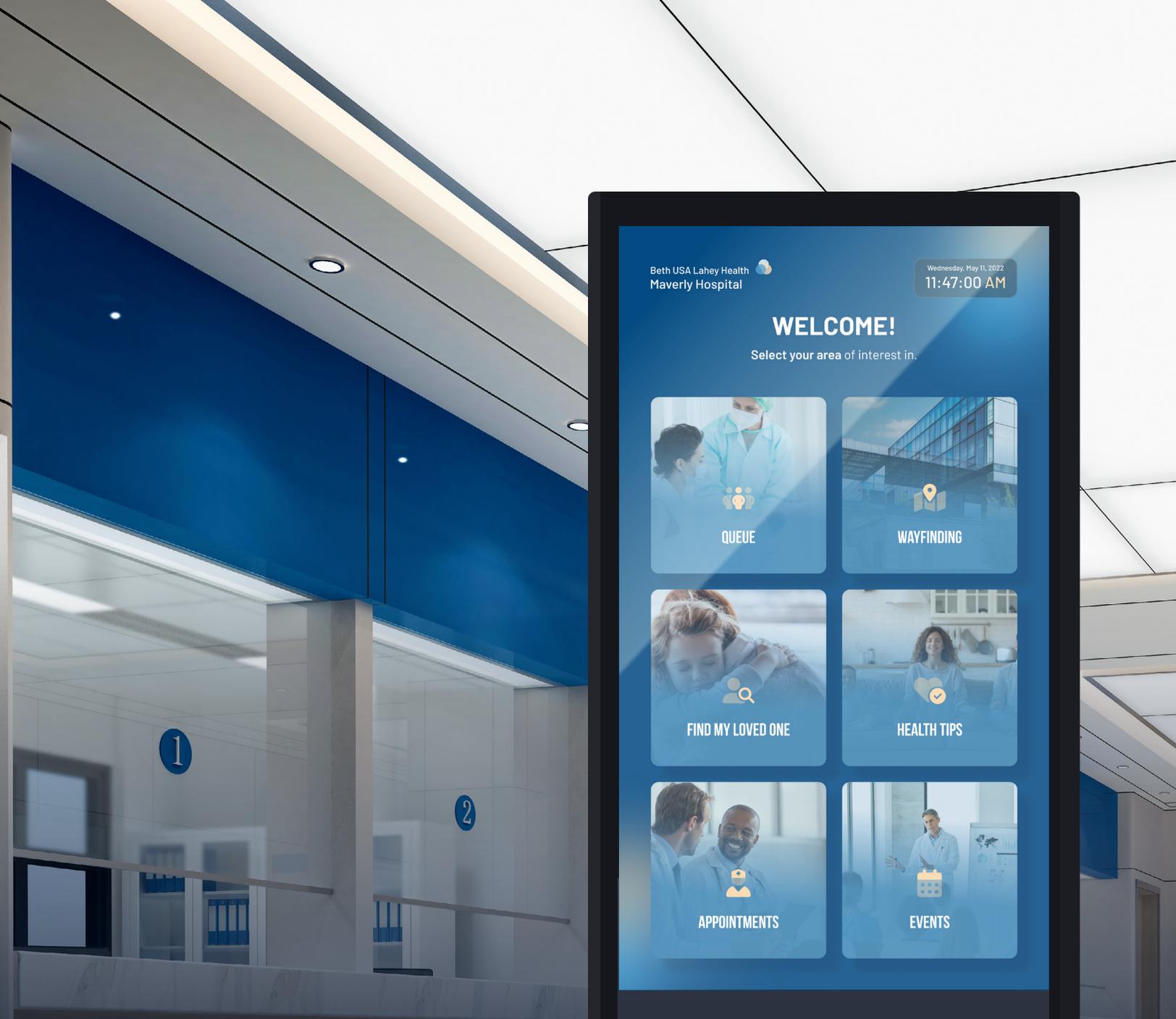
Operational Patterns

- **Bedside Digital Whiteboards** (EHR-aware) show care team, plan for the day, pain goals, anticipated discharge, language icon, and dietary flags—kept current without manual rewrites.
- **Unit Status Boards:** admit/discharge/transfer (ADT) snapshots, safety huddles, device utilization, staffing ratios, and code protocols.
- **Shift-Handoff Support:** visual checklists reduce communication lapses; bedside shift-report interventions have been tied to **lower fall rates (e.g., 24% reduction in one QI project)** and improved nurse satisfaction.

2. Cross-Facility Updates: Safety, Quality, and Crisis Comms

Health systems broadcast recall notices, visitor policy changes, surge protocols, and **real-time emergency alerts** (e.g., severe weather, infant-security events) to targeted endpoints—lobbies, staff lounges, EDs, back-of-house corridors—ensuring consistent reach without inbox overload.





Beth USA Lahey Health
Maverly Hospital

Wednesday, May 11, 2022
11:47:00 AM

WELCOME!

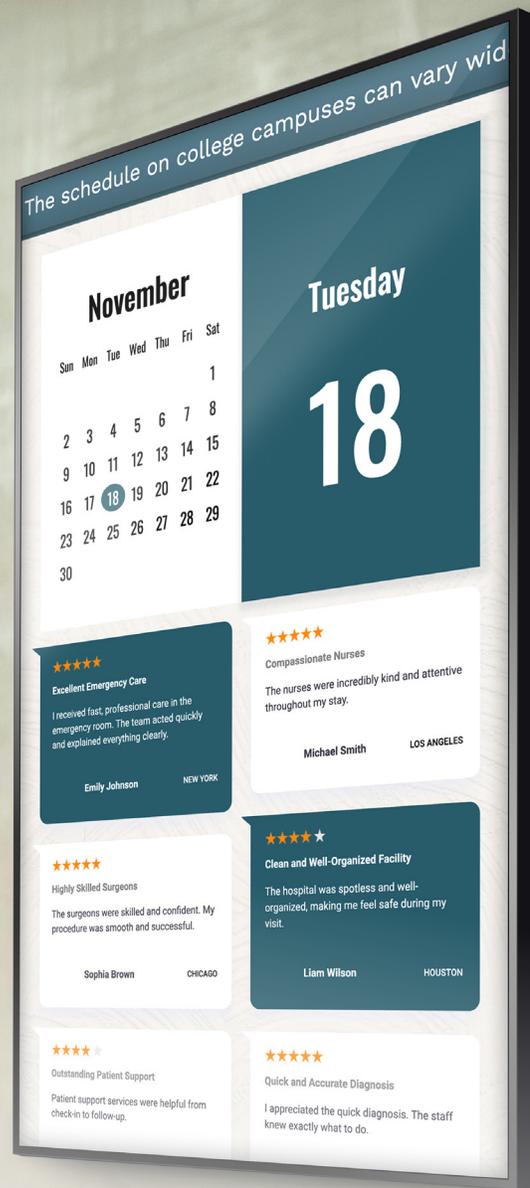
Select your area of interest in.



Interactive Displays & Wayfinding Kiosks

Why It Matters in Healthcare: Hospitals are not linear journeys; they're graphs with detours. **Interactive kiosks** and **mobile indoor navigation** compress uncertainty, drive punctuality, and reduce the "where do I go?" interrupts that drain nursing time. Repeated evidence and expert commentary show **navigation clarity reduces stress, boosts satisfaction, and improves appointment punctuality**; some sources document substantial **decreases in navigation time** post-deployment.

ROI Framing Tip: Pair operational KPIs (on-time starts, throughput, interrupts) with PX outcomes (HCAHPS domains tied to communication and environment). Provide a line of sight from signage interventions to financial levers (penalties avoided, visits retained, staff minutes reclaimed).



Benefits & ROI: What to Expect

With Numbers

- **Perceived wait time:** Reductions up to **~35%** in clinical settings have been reported—this consistently correlates with improved sentiment and calmer waiting rooms.
- **Message recall & engagement:** **~75%** of hospital viewers recall at least one message—a strong foundation for education, portal enrollment, and preventive prompts.
- **Navigation efficiency:** **87% report reduced navigation time** after digital wayfinding; organizations modeling the problem estimate **up to ~\$500k/year** in costs associated with lost visitors and staff time.
- **Patient understanding & activation:** Digital/standardized whiteboards are associated with **higher patient activation scores**, better team awareness, and improved satisfaction.
- **Revenue protection:** Reducing late/no-shows taps into a **\$150B U.S. problem**; even a **1–2% improvement** can recover significant physician and facility revenue.

Implementation Blueprint

12–20 Weeks for a Multi-Facility Pilot → Scale

Governance & Objectives

- Establish a **Signage & Wayfinding Steering Group** (Marketing/Comms, Patient Experience, IT, Clinical Ops, Security, Facilities).
- Define **three measurable outcomes** (e.g., on-time arrival +5%, directional interrupts –30%, HCAHPS “communication with nurses/doctors” +1–2 pts).
- Align on brand standards, accessibility (WCAG/ADA), and languages.

Architecture & Integrations

- **CMS:** Enterprise-grade, cloud-managed platform that supports roles/permissions, granular scheduling, emergency overrides, and device health monitoring.
- **Data Feeds:** EHR/ADT (for unit boards and bedside whiteboards), wayfinding map data, directories/providers, wait-time/queueing tools, weather/alerts.
- **Security:** SSO (SAML/OIDC), network segmentation for players, content signing, and audit logs.
- **Wayfinding Stack:** Authoring tool for maps, rules for shortest accessible routes, **QR/app handoff**, optional BLE/Wi-Fi/RFID for indoor blue-dot.





Hardware & Placement

- **Lobby Video Walls / 55–75" Kiosks** at primary entrances, ED intake, parking elevators, and junctions.
- **Unit Corridor Screens (43–55")** for safety/quality and shift updates in staff-only zones.
- **Patient-Room Displays/Whiteboards** (either native patient TV app or separate panel) synchronized with EHR.
- **Clinic Counter Screens** for self-service promotion and timely education.

Content Operations

- **Channel Taxonomy:** "Public navigation," "Public education/promo," "Staff ops," "Emergency."
- **Cadence:** Monthly service-line updates; weekly PX prompts; real-time alerts as needed.
- **Localization:** At minimum top three languages; large fonts and high contrast per accessibility standards.
- **Measurement:** UTM/QR scans, app opens, on-time metrics, HCAHPS movement, interrupt logs.

Pilot → Scale

- Start with **1 flagship hospital + 2 clinics**.
- Run for **90 days**, compare against baseline.
- If targets met, scale to remaining sites with a repeatable checklist (mounting, power/data, player naming, content templates).

Stakeholders



Patient Experience:

Journey mapping, signage language, plain-English copy, accessibility reviews, HCAHPS linkage.



IT (Infrastructure & Security):

Network, device management, SSO, integrations, monitoring, incident response.



Clinical Ops/Nursing:

Workflow design for unit boards and bedside whiteboards; daily content ownership (e.g., discharge goals).



Facilities/Wayfinding:

Physical placement, ADA, lighting/glare analysis, map accuracy; coordination with construction.



Executive sponsor (COO/CNO/CMIO):

Prioritization, funding, barrier removal; approves KPIs and scale plan.



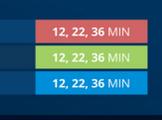
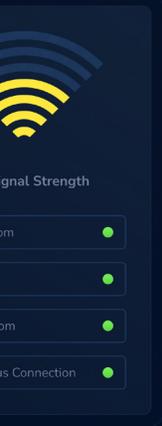
Communications / Marketing:

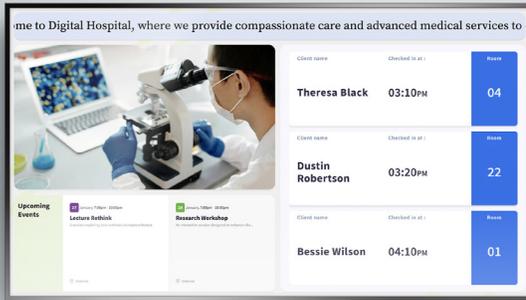
Content governance, brand, health-education curation, service promotions, message testing & analytics.



Vendor/Integrator:

Hardware deployment, software configuration, content templating, training, support SLAs.





Total Cost of Ownership (TCO)

One-Time (Typical Ranges per Location)

~\$500

from

- **Displays** (43–75" hospital-grade): **\$500–\$2,500** per screen depending on size/spec.

~\$2K

from

- **Interactive Kiosks** (55" with touch, PC, enclosure): **\$2,000–\$10,000** each.

~\$300

from

- **Media Players** (enterprise-managed): **\$300–\$700** per endpoint.

~\$200

from

- **Mounts, Power/Data, Low-Voltage Labor:** **\$300–\$1,200** per screen depending on site conditions.

~\$5K

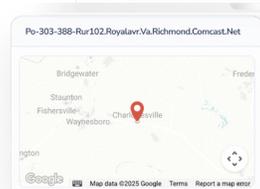
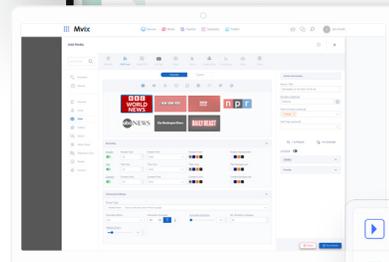
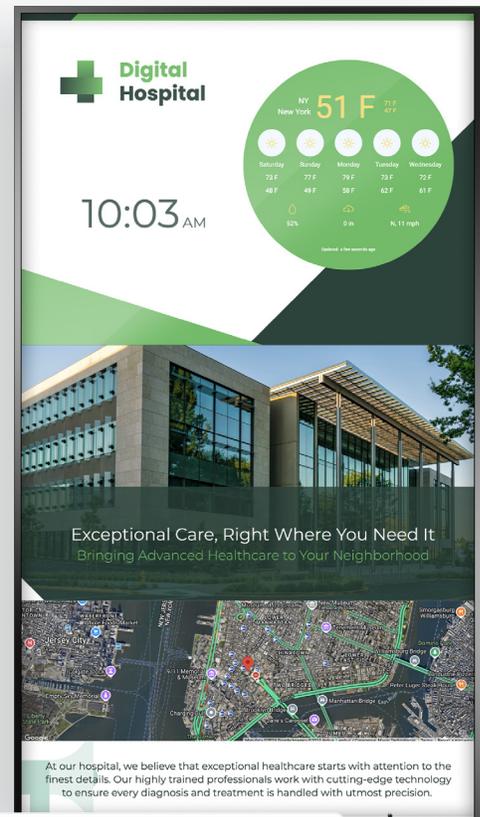
from

- **Wayfinding Authoring & Mapping:** initial map digitization/routing rules **\$5,000–\$25,000** for a large campus (varies with complexity).

~\$500

from

- **Integration Services** (EHR/ADT, wait-time feeds, SSO): **\$500–\$5,000** depending on scope.



Recurring (Annual)

~\$120

optional

- **CMS Licensing & Device Management: \$120–\$360 per endpoint** (volume-tiered).

~\$10K

from

- **Wayfinding SaaS** (authoring, hosting, mobile SDKs): **\$10,000–\$50,000** per campus.

~\$1K

from

- **Support & Content Ops** (optional managed services): **\$1,000–\$5,000** per site, depending on frequency and scope.

Offsets to TCO

Recovered staff time (fewer directional interrupts), **improved punctuality** (more on-time starts), **PX-linked reimbursement protection**, and **service-line uptake** (e.g., imaginag add-ons, vaccination clinics). Models of wayfinding inefficiency estimate **\$0.80–\$1.20 per outpatient visit** or **\$450–\$500 per bed/year** in avoidable cost—helpful inputs for a board-level ROI case.

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Measurement & Governance: Proving Impact in 90 Days

- **Throughput:** door-to-destination time (median), % on-time arrivals.
- **Operational Load:** # of “where is X?” interrupts per shift; staff time reclaimed.
- **PX:** targeted HCAHPS items that signage can influence (communication with nurses/doctors; information at discharge).
- **Engagement:** QR scans, route starts/completions, content recall spot-surveys (lobbies and clinics).
- **Safety/Quality:** unit huddle compliance, falls & handoff issues when bedside boards are part of a broader bedside-report intervention.



Mvix in Healthcare: What 20 Years Delivers

Over two decades, **Mvix** has partnered with **hundreds of hospitals, specialty clinics, and ambulatory networks** to deploy robust, enterprise-managed visual communication systems. Typical outcomes:

- **Calmer Lobbies** via clear arrival guidance, queue messaging, and health education loops.
- **Reliable Staff** channels for huddles, metrics, and crisis comms across large footprints.
- **Bedside Understanding:** digital patient-room boards that sync with EHR fields to keep plans current.

What Clients Value

- **Turnkey Delivery:** hardware, software, integrations, branded templates.
- **Enterprise Controls:** roles/permissions, SSO, device health dashboards, emergency overrides.
- **Process Maturity:** installation playbooks for active hospitals, infection-control protocols, after-hours cutovers.
- **Scalability:** start with one campus, expand to the network using standard templates and governance.

Ask for Mvix references in acute care, ambulatory surgery, and multispecialty clinics, plus sample templates for **interactive wayfinding, unit boards, and bedside whiteboards.**

Practical Examples & Aspirational Scenarios

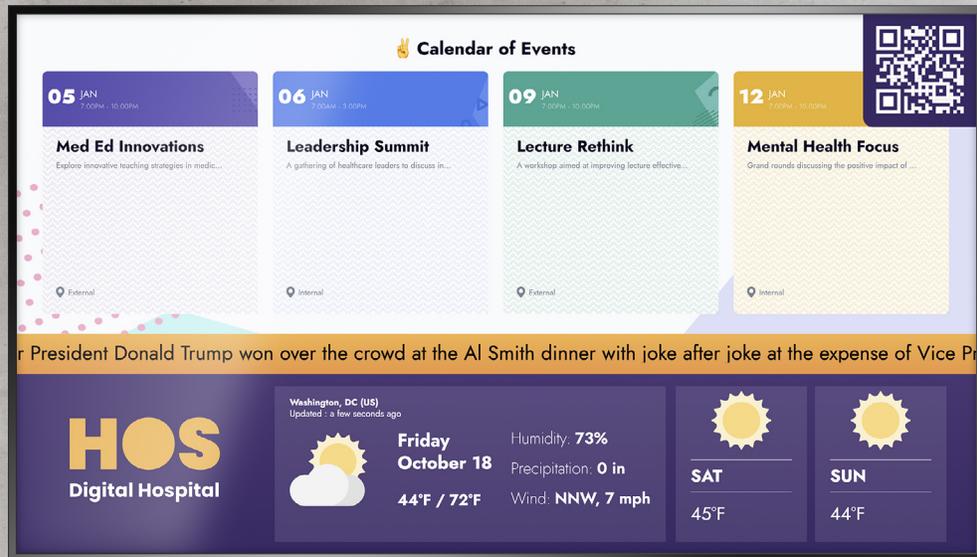


- **Interactive Wayfinding + Mobile Handoff** at a 900-bed academic hospital: 3 entrance kiosks and QR handoff reduce peak-hour lobby congestion; clinics **report fewer late arrivals** and staff notes **fewer direction requests**. (Map analytics show popular decision points and route friction.)
- **ED + Inpatient Digital Whiteboards:** EHR-fed boards show daily plan, anticipated discharge, care team, and language icons; PX spot-

surveys indicate **higher comprehension/activation**, echoed by literature showing whiteboard-driven engagement gains.

- **System-Wide Safety and Surge Comms:** centralized CMS pushes code protocols and severe-weather alerts to staff-only corridors and lounges within seconds; compliance audits note faster awareness vs. email-only workflows.

Risks & Mitigations



- **Content Sprawl / Message Fatigue** → adopt a channel taxonomy and publishing SLAs; require owners per channel.
- **Out-of-Date Maps** → assign Facilities as the map authority; changes bundled with work orders.
- **Security & PHI Exposure** → avoid PHI on public screens; enforce SSO and network segmentation on staff and bedside endpoints.
- **Accessibility Gaps** → WCAG-conformant fonts/contrast; multilingual content; audio handoff options at kiosks.

It Delivers

Hospitals don't need more noise; they need the **right information, in the right place, at the right moment.** Digital signage and interactive wayfinding deliver exactly that—less confusion, calmer arrivals, better staff coordination, and measurable gains in patient experience and operational efficiency. With adoption already widespread, the opportunity is in **doing it well:** integrated with core systems, governed like a product, and measured against outcomes that matter to clinicians, operators, and patients.

If you're ready to audit your journey maps, prioritize placements, and stand up a pilot with clear metrics, Mvix can help you get **from idea to impact** → fast.



The logo for Mvix, featuring the word "Mvix" in a white, sans-serif font. The letter "i" has a small blue square above it, and the letter "x" has a blue triangle pointing to the right on its right side. The background is dark blue with a large, lighter blue geometric shape on the left and thin white lines forming a grid pattern.

www.mvix.com



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