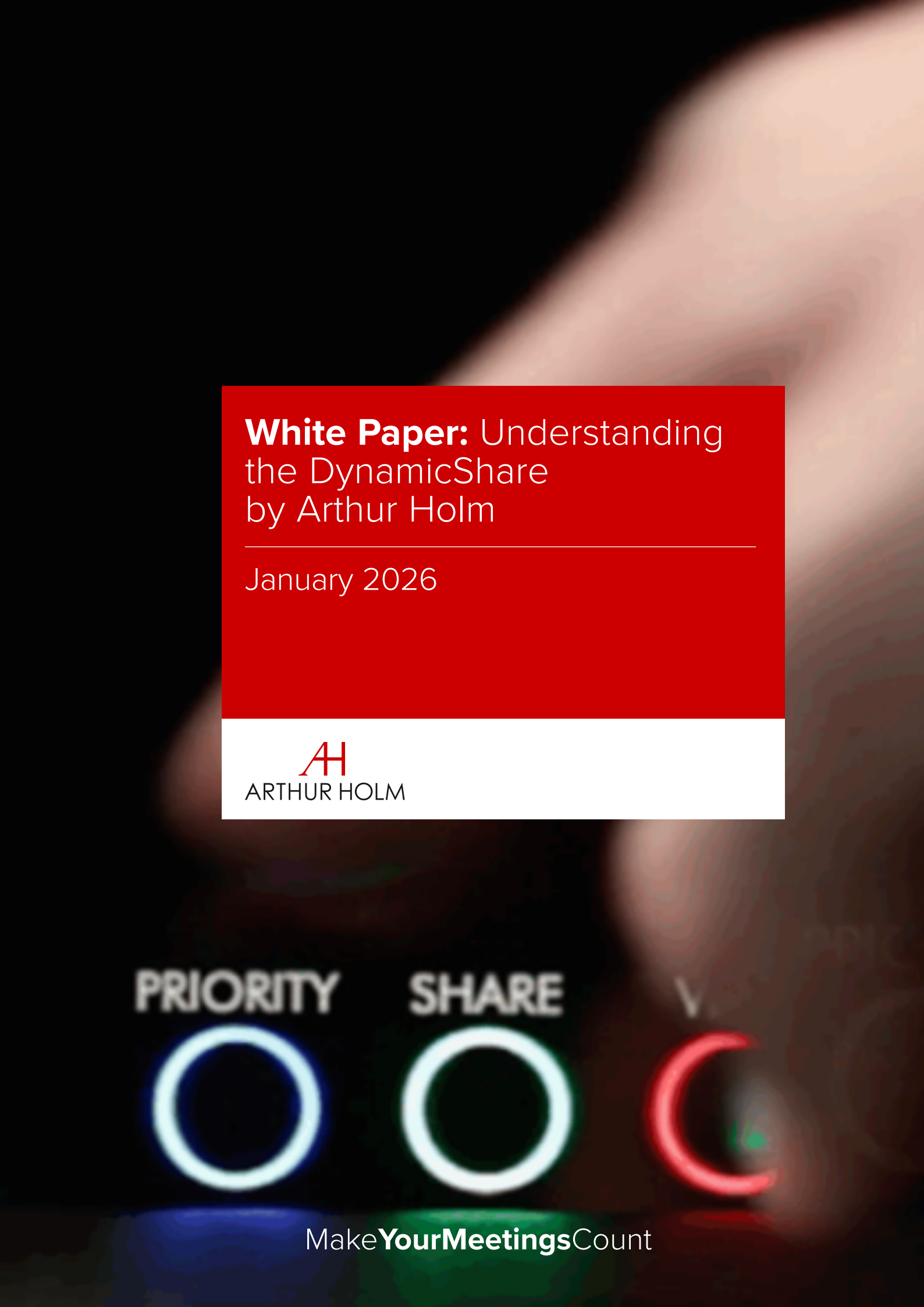

White Paper: Understanding the DynamicShare by Arthur Holm

January 2026

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MakeYourMeetingsCount

Understanding the DynamicShare by Arthur Holm

A secure, zero-latency HDMI collaboration backbone for modern meeting environments!

Executive summary

DynamicShare is Arthur Holm's wired video selection and distribution system designed to make "share-to-table" collaboration simple, secure, and immediate—without software, Wi-Fi dependence, or video compression. It enables participants to connect their devices via a local HDMI or via USB-C (retractable cable or fixed cover plate connector), select among 3 different inputs, and share the chosen source to a daisy-chained loop of displays with **no latency** and **high security** via physical cabling (ring topology: the first device needs to be connected to the last one).

DynamicShare is available in two deployment approaches:

- **DynamicShare integrated (board-based) in compatible motorized Arthur Holm monitors**
- **DynamicShare Stand Alone (AHDSSA)**: an external selection/share unit.

This white paper explains the challenges DynamicShare addresses, how it works, key technical capabilities, and best-practice design patterns for real-world deployments.

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The collaboration problem in meeting spaces

Meeting rooms increasingly need to support:

- **BYOD (Bring Your Own Device)** with fast, frictionless content sharing
- **Multiple presenters** (switching between sources quickly)
- **High security** (particularly in government, legal, boardroom, and enterprise settings)
- **Predictable performance** (no wireless congestion, no codec artifacts, no latency)
- **Aesthetics and ergonomics** (minimal visible cabling, integrated in the furniture design)

Wireless presentation gateways can be convenient, but they can introduce tradeoffs: variable latency, dependence on network conditions, software clients, firmware management, and potential security concerns.

DynamicShare takes a different route: **a deterministic, wired HDMI loop** to prioritize ease of use, reliability, fidelity, and security. And there is no need to access the corporate network for non-authorised devices (devices that visiting clients wants to share from).

What DynamicShare is:

DynamicShare is a **video selection and distribution** solution built to reduce cabling complexity and installation effort in meeting rooms and similar environments.

Core value proposition

- **Plug-and-play and software-free** operation
- **No video compression (no latency)**
- **HDCP compliant**, supporting protected content scenarios
- **Daisy-chain distribution topology**, enabling multiple endpoints on a loop
- **External control options** (Ethernet)

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System architecture and operation

1) Daisy-chain HDMI “loop” topology

DynamicShare distributes video by linking units/displays in a **daisy-chain loop** (HDMI IN/OUT between devices). Each device has 3 HDMI inputs , plus a loop input used to receive the currently shared signal.

A practical way to think of it is:

DynamicShare functions like multiple HDMI selectors combined with cascaded distribution amplifiers, arranged in a daisy chain—so users can view local sources privately without affecting others unless they explicitly share.

2) Local selection vs. shared viewing

Each participant can:

- **Select a local input** (e.g.: HDMI 1/2/3) to view on their own display
- **Share** their currently selected local source to the loop so everyone sees it
- Optionally use **private mode** (so their display stays on a chosen local source even when another participant shares)
- Activate the Priority mode (so the shared input cannot be interrupted)
- Select and share video signals directly from the table screens

This separation between *local viewing* and *shared distribution* supports natural meeting dynamics: participants can prep content privately, then publish it to the room when ready.

3) Control and integration

DynamicShare supports external control pathways: **Ethernet external control** (the user manual describes in detail the command structure).

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Product configurations

DynamicShare integrated into Arthur Holm monitor ecosystems

In Arthur Holm's integrated approach, DynamicShare can be built into Dynamic monitors, reducing the need for external devices and power supplies with a maximum of **20 units at Full HD** resolutions. The max HDMI cable length between monitors should be 2 meters and an extender kit is available if distances exceed these limits.

In the DB2Share, one of the inputs is avaiable via a retractable HDMI cable and the other 2 inputs are placed at the bottom of the monitor (inside the table).

The View and Share buttons are placed on the monitor's front glass, so the user can easily select the input (View) and share it (Share).

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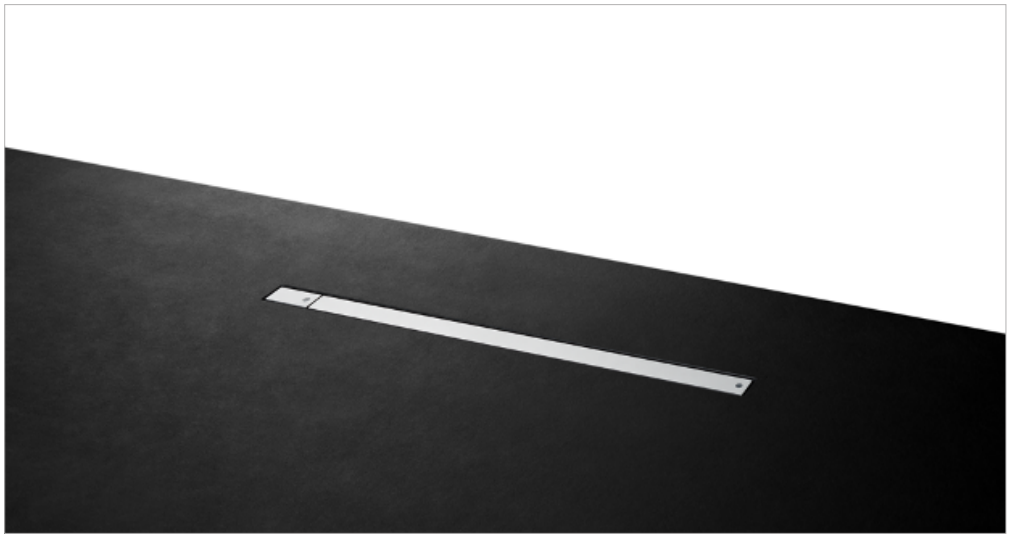

DynamicShare Stand Alone (AHDSSA)

AHDSSA is an stand alone **wired share system** that can select between **three HDMI inputs** and distribute the selected input to devices connected in a daisy chain.

Key capabilities (AHDSSA):

- **3× HDMI inputs, 1× HDMI output**, plus loop connectivity
- **Up to 20 devices in Full HD** resolution
- **No latency** (no compression), **software-free, plug and play**
- **Digital audio output (SPDIF)**
- **Max HDMI cable length of 2 meters**
- **Power**: external 12VDC supply, consumption of 15W

It supports connecting to “other devices” such as large displays, projectors, video walls, or matrices.

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Security model: why “wired-first” matters

DynamicShare’s security posture is primarily architectural:

- **Physical-layer distribution (HDMI cabling)**.
- **No software clients**: fewer endpoints and fewer variables (no app installs, no OS permission prompts, no “shadow IT” dongles).
- **Deterministic performance**: no dependency on Wi-Fi saturation, multicast behavior, or corporate network segmentation.

This is particularly relevant for:

- Meeting rooms, boardrooms and executive briefing centers
- Government / defense / secure enterprise facilities
- Courtrooms and legal environments
- R&D and pre-release product review rooms

Performance and user experience

Because DynamicShare avoids encoding/decoding workflows, it is positioned for:

- **Instant switching and sharing** (bounded by HDMI switching and device handshake)
- **No compression artifacts** (pixel fidelity is preserved relative to the HDMI source)
- **No “network lag”** (key for interactive reviews, video playback, UI demos

The result is a meeting experience closer to “plug in, show, decide”—with minimal technical mediation.

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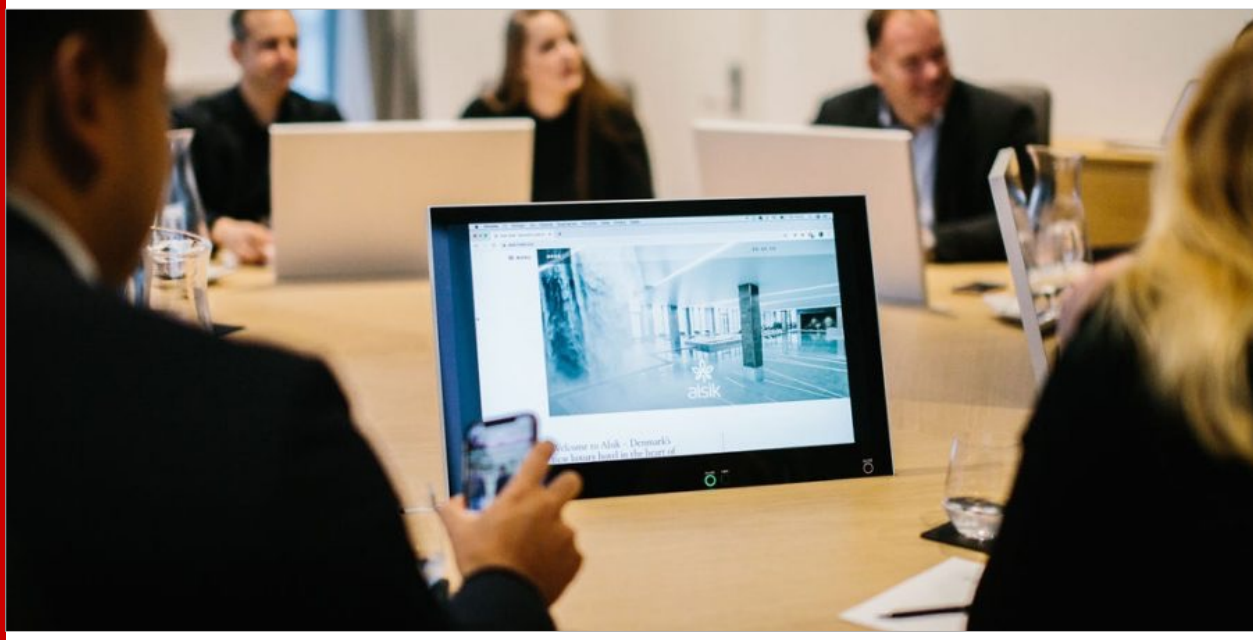
Deployment patterns and best practices

Pattern A: Meeting room with personal retractable monitors



- Each seat has an Arthur Holm DB2Share monitor
- Users connect laptops via HDMI (via a retractable HDMI cable)
- One-touch View button in the monitor's glass displays the chosen source to each particular monitor
- One-touch share button in the monitor's glass displays the chosen source to all monitors

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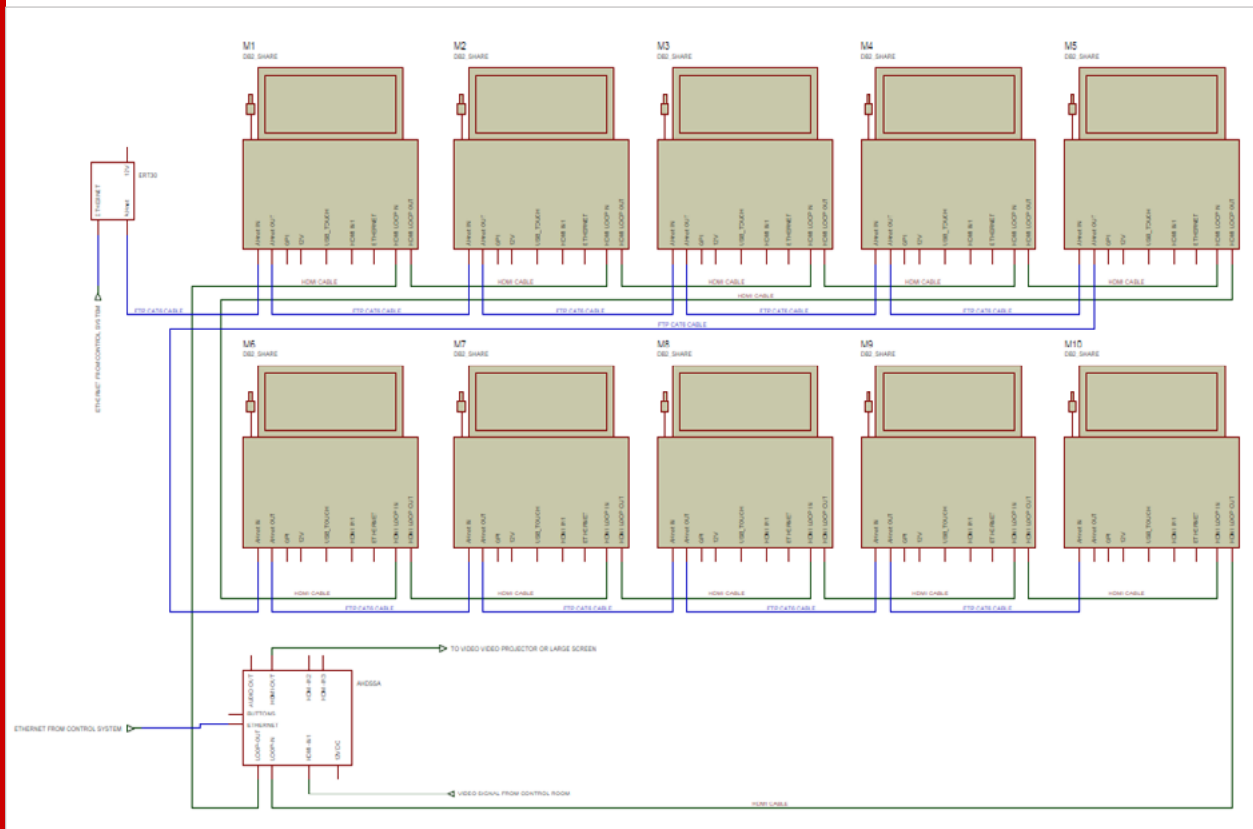
Why it works: clean table design, space optimizing + predictable sharing with minimal user training.



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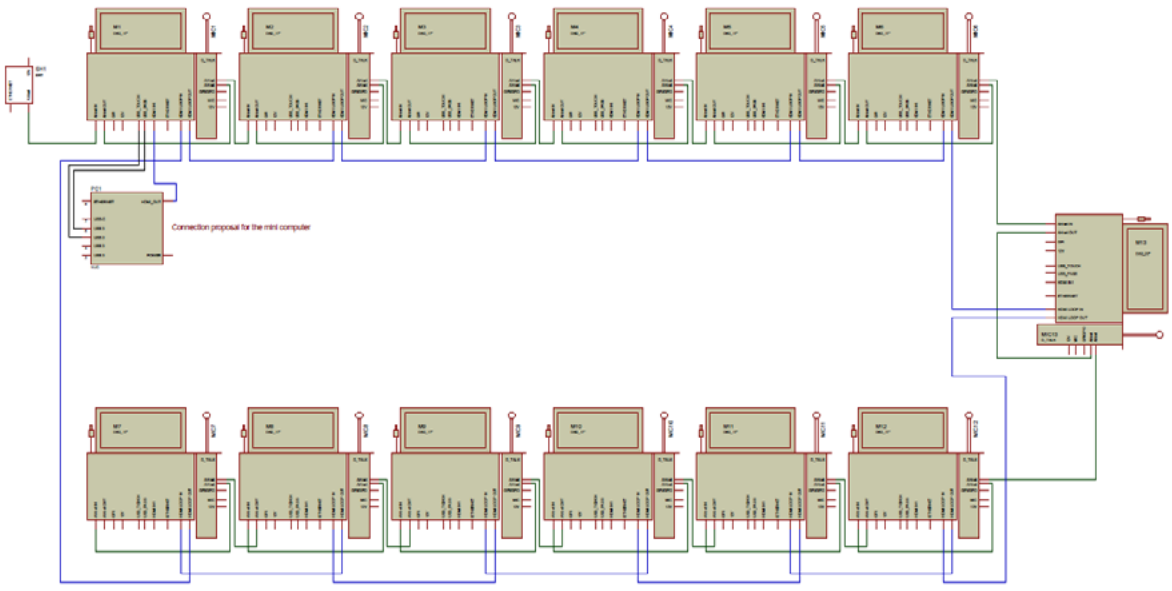
Pattern B: Boardroom with personal retractable monitors + room display/projection

DB2Share monitors + DynamicShare Stand Alone to support straightforward integration to larger displays/projectors/video walls/ matrix systems.

- The shared loop feed can be routed to a large wall display, so the entire room follows the selected presenter both on the table monitors and on the wall large monitor.



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Pattern C: Auditorium with multiple presenters and a large audience display

Use case: Auditoriums, lecture halls, training centers, and hybrid boardroom–auditorium spaces where several presenters need to share content locally and with a large audience.

In this scenario, **DB2Share monitors** are installed at the presenters' desk. Each presenter can connect a laptop locally via HDMI or via USB-C and view content on their personal table monitor. When required, the presenter can instantly **share the selected source** to:

- All table monitors
- A **large videowall or projection screen** positioned at the back or front of the auditorium for audience viewing

Key advantages:

- **Seamless presenter switching:** Any presenter can take control and share content without re-cabling or AV operator intervention
- **Unified content distribution:** The same signal is shown simultaneously on table monitors and the large audience display
- **No latency, no compression:** Ideal for presentations, video playback, and detailed content
- **Secure, wired infrastructure:** Particularly suitable for institutional, governmental, or corporate auditoriums

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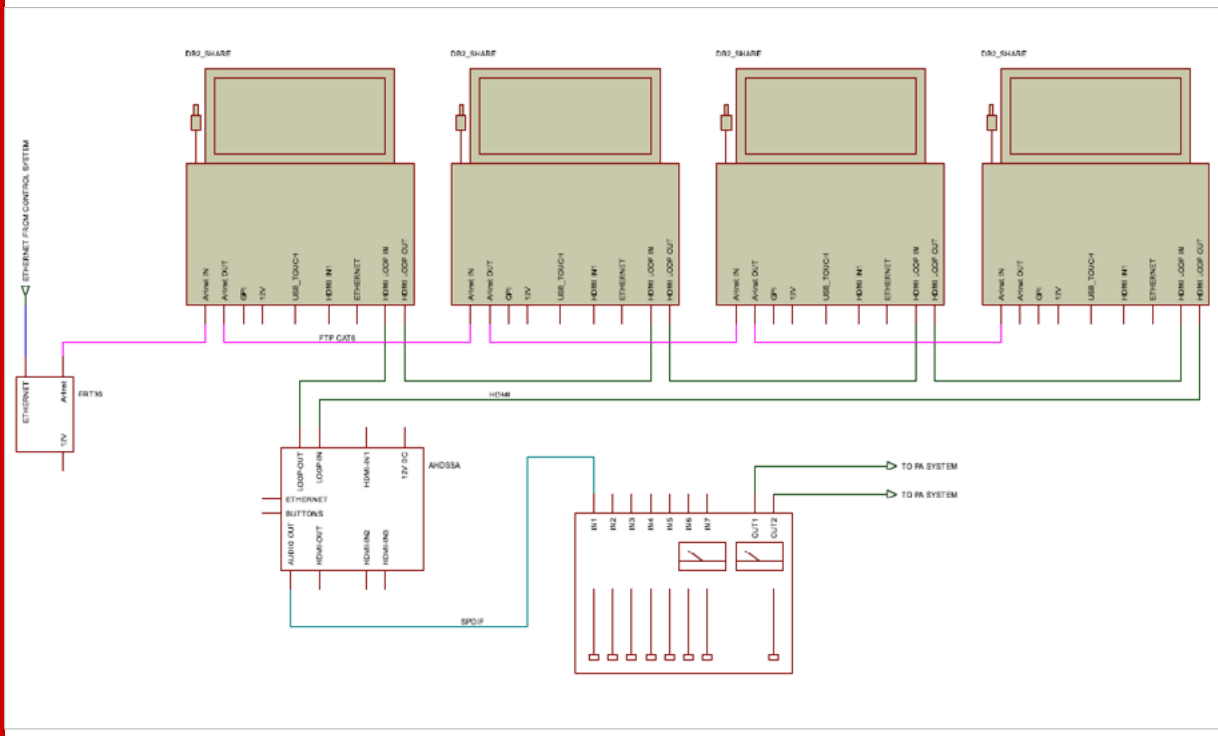

Why it works:

DB2Share allows presenters to work independently at the table while maintaining a clear and immediate path to the main videowall. This creates a fluid presentation experience for both presenters and the audience, without relying on wireless networks or software-based sharing platforms.

Where DynamicShare fits best (and where it may not)

Best fit

- High-stakes meetings where **security**, **fidelity**, and **reliability** matter most
- Environments wanting **zero client software** and consistent UX
- Rooms with integrated furniture and a preference for **minimal visible devices**

Consider alternatives when

- You have more than 20 seats that need to share
- You need multi-view compositing, advanced routing, or 4K end-to-end across many endpoints (a full AV-over-IP or matrix design may be better, depending on requirements)

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Conclusion

DynamicShare by Arthur Holm is designed to make multi-user content sharing **secure**, **immediate**, and **predictable** by using a wired HDMI distribution/ selection architecture. With software-free operation, no-latency performance, and clean integration into meeting furniture and displays, it offers a compelling collaboration approach—especially in meeting rooms, boardrooms and secure environments where reliability and control outweigh the convenience of wireless.

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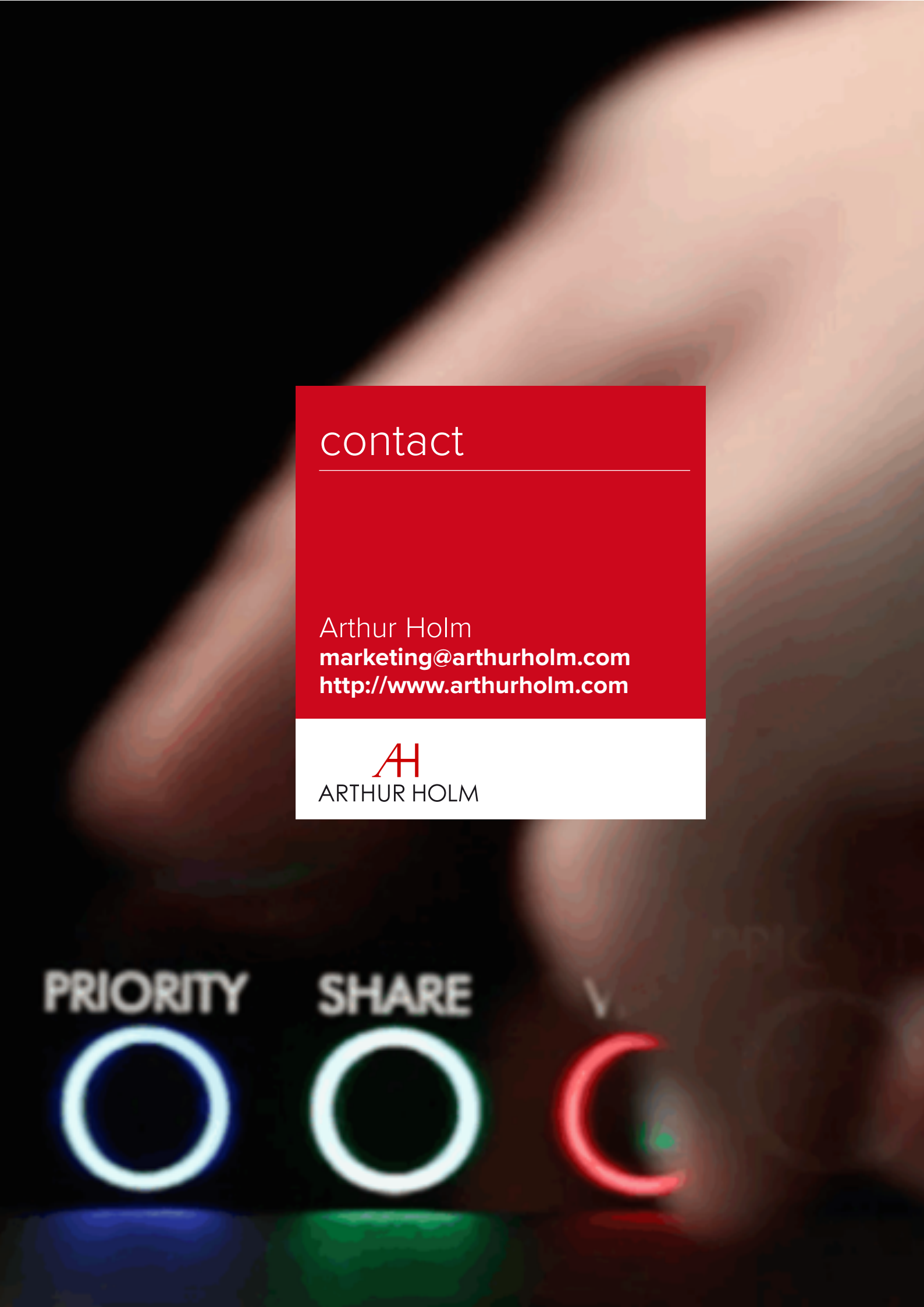

contact

Arthur Holm
marketing@arthurholm.com
http://www.arthurholm.com

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