

02 • DESIGN

Data centre conceptual design in 30 to 45 days

A bespoke conceptual design typically takes four to six months. The Decision Accelerator Pack draws on a library of over one hundred certified reference designs to compress that timeline substantially.

WHAT THIS SERVICE COVERS

The speed comes from not starting from scratch. The quality comes from starting from a certified precedent.

The Decision Accelerator Pack is designed for clients who need a credible, certification-aligned design concept quickly, to validate a development decision, initiate early procurement, support a planning or investment submission, or begin tenant conversations before full detailed design is commissioned. It draws on our library of over one hundred TIA 942C-certified reference designs, developed across MTDC, Edge, Hyperscaler, and Enterprise use cases at Tier II through Tier IV. Each reference design has been through a formal TIA 942C audit process, so the output is a validated, compliance-aligned starting point, not just a conceptual sketch. The service also includes vendor document review, so clients can use the output to initiate early procurement conversations with equipment suppliers.

30–45 day delivery

100+ certified reference designs

LOD 200 across 6 disciplines

WHAT WE DELIVER

Deliverables from this engagement

01

Conceptual Design Summaries

Use-case and site-optimised design concepts drawn from the reference library, at a level of detail sufficient for investment and planning submissions.

02

LOD 200 Schematics, 6 Disciplines

Schematics across HVAC, Electrical (LV/MV), ELV, Fire Protection, Network, and Plumbing, sufficient for early procurement and lender presentations.

03

Budgetary Estimates

High-side capital cost estimates by infrastructure category, calibrated to current equipment and construction costs, used directly in investment submissions.

04

Compliance Adjacency Assessment

Assessment of how closely the configuration aligns with TIA 942C requirements for the target rated level, and what changes full certification would require.

05

Vendor Document Review

Review of equipment vendor documentation and shop drawings against the design concept, confirming compatibility before procurement is finalised.

WHY TECHNAVIOUS

Why the Decision Accelerator is faster without compromising quality

1 100+ certified reference designs eliminate blank-page delays

Every reference design has been through a formal TIA 942C audit process. Starting from a certified precedent rather than a blank page reduces conceptual design time from months to weeks while maintaining compliance quality.

2 Simulation-ready from the outset

Reference designs are structured to enable CFD and ETAP simulation validation during the Detailed Design phase without requiring redesign. The output is a validated starting point, not a sketch that needs substantial revision.

3 Immediate path to Detailed Design

Because the Decision Accelerator uses the same design frameworks as the Detailed Design pack, moving to Detailed Design is a continuation rather than a restart. No design time is wasted bridging the two stages.

HOW WE WORK

Four phases from brief to deliverable in 30 to 45 days

01	02	03	04
Brief & matching	Adaptation	Validation	Delivery
Use case, capacity, site, and target tier confirmed. Matching reference design identified from library.	Reference design adapted to site-specific requirements. Site optimisation and capacity calibration applied.	Compliance adjacency assessment completed. Budgetary estimates calibrated to current costs.	Full deliverable set produced and delivered with a client review session.

NATURAL NEXT STEP

The Decision Accelerator output forms the starting point for a Detailed Design and Execution Pack engagement, using the same design framework with no reconciliation step between them.

CASE STUDIES

Design and engineering work we have delivered

COLOCATION OPERATOR

MEP design for a 4 MW facility with a dual-mode cooling system supporting 6–20 kW rack loads. ETAP and CFD modelling mitigated hotspots and voltage risks before construction.

HYPERSCALE DC OPERATOR

Power density upgrade across 100 live racks, from 6 kVA to 15 kVA, a 150% increase, CFD-validated with zero hot spots and no disruption to tenant operations.

COLOCATION SERVICE PROVIDER, JORDAN

HVAC and cooling stabilisation for a 0.75MW facility. Recurring chiller shutdowns and alarm cycles eliminated, with a prevention-first framework established.

FREQUENTLY ASKED QUESTIONS

Questions we are regularly asked about the Decision Accelerator

How is the Decision Accelerator different from a bespoke conceptual design?

A bespoke conceptual design starts from a blank page, which typically takes four to six months. The Decision Accelerator starts from a certified reference design already through a TIA 942C audit process, adapts it to the use case and site, and delivers in 30 to 45 days.

Can the output be used for planning and investment submissions?

Yes. The LOD 200 schematics and budgetary estimates are at a level of detail accepted by planning authorities and investment committees in most cases. The compliance adjacency assessment provides evidence the configuration is certification-aligned.

How do we move from the Decision Accelerator to Detailed Design?

The output forms the basis of the Detailed Design engagement. Both services use the same design framework, so there is no redesign step, and deliverables are handed directly to the Detailed Design team as the LOD 300 starting point.

Is the Decision Accelerator available for all data centre types?

Yes. The library covers MTDC, Hyperscale, Enterprise, and Edge use cases at Tier II through Tier IV. Boundary cases, such as a high-density AI-ready facility, are adapted from the closest matching design.

Ready to request a Decision Accelerator scope?

Tell us your use case, capacity, target tier, and delivery timeline, and we will confirm whether a matching reference design exists in our library.

[Talk to us today](#)