

# **SYNCHRO**<sup>™</sup>

Digital Construction Delivery Software



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## Understanding the Construction Sector

The construction sector stands as one of the world's largest economic drivers, generating over USD 12 trillion in annual revenue and employing more than 200 million people globally.

Despite being one of the biggest industries in the world, it historically has been among the slowest to digitize and innovate.

Construction teams must navigate complex sets of information, coordinate between multiple stakeholders, manage tight schedules and budgets, ensure worker safety, and adapt to evolving project complexities and regulations—all while delivering increasingly ambitious projects in an environment where skilled labor shortages and material costs continue to rise.





## Key industry challenges include:



Cost overruns and delays



Poor data management



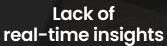
Ineffective resource tracking



Collaboration challenges



Risk and safety management



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Disconnects between design and construction



#### What is SYNCHRO?

To meet these challenges, construction teams must leverage the best digital solutions to better manage, connect, and access project data — ensuring that they can make better and faster project decisions.

SYNCHRO was built with those goals in mind.

SYNCHRO is digital construction delivery software that provides advanced 4D planning, scheduling, and productivity tracking capabilities – connecting field to office – empowering teams to deliver projects with greater certainty and fewer risks.

Teams can seamlessly capture, access, and analyze their data in full project context while better managing tasks, people, materials, and equipment.

With SYNCHRO's robust cloud collaboration, teams can connect all project teams and stakeholders, whether on the job site or in office.



## **SYNCHRO at a High Level**

Discover a few of SYNCHRO's features that drive value for construction...

#### **10 Key SYNCHRO Features**

- 1. Drive winning projects with digital construction delivery software powered by iTwin<sup>®</sup>
- 2. Leverage the powerful critical path method (CPM) scheduling engine, equipped with Gantt views and bi-directional connections with P6, Microsoft Project, and other scheduling applications
- **3. Advanced visual planning and 4D modeling capabilities** including slicing and dicing models into constructible components for quantity take-off and scheduling
- **4. Manage your tasks and data in real time** with 2D, 3D and 4D context, using web browser and mobile applications
- **5. Expedite operations** in the field, including inspections, time tracking, and resource optimization

- 6. Access all 3D/4D models, PDFs, documents, and project capabilities directly in the field on mobile devices
- 7. Benefit from rich engineering data and construction insights, both in the field and in the office
- **8. Exploit the power of AI** to search for and find photos, videos, and other content in seconds
- 9. Integrate directly with ProjectWise<sup>®</sup> Design Integration to extend design content into construction delivery
- **10. Geolocate everything,** including PDFs, issues, inspections, photos, weather, and workflows



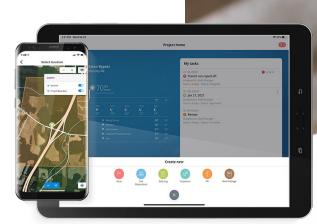
## **SYNCHRO Field**

Solution for: Field Execution

**Built for:** Superintendents, Foremen, Inspectors, Field Engineers, Project Managers

- SYNCHRO Field is a mobile solution built to solve field execution challenges.
- SYNCHRO Field makes it easy to access and capture data in context through maps, geo-PDFs, 2D CAD, and 3D/4D models. Teams can easily capture project updates, handle inspections and RFIs, create custom forms, flag issues, and view model progress. This real-time project visibility drives quicker decisions, improving overall productivity, quality, and safety.

- **1.** Know where you are on large construction projects (geo-location services)
- **2.** Simplify your day-to-day tasks, RFIs, inspections, and daily logs, quickly resolving issues
- 3. Track project models in the field, even when offline
- 4. Capture real-time data at any moment
- 5. Access all project documents and media



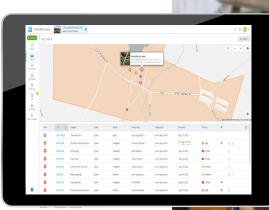
## **SYNCHRO Control**

#### Solution for: Project Management

**Built for:** Project Managers, Project Directors, Safety Managers, Operations Managers

- SYNCHRO Control is a web solution for document, data, model, and task management.
- Teams stay connected around one central hub of project information. SYNCHRO Control
  makes it easy with its intuitive project tracking and analysis, ensuring real-time control and access
  of all project progress, as well as full team visibility and collaboration at every project phase.

- 1. View PDFs on a map
- 2. Filter photos and videos by geo location, date/time, context, and content
- **3.** Set guest access permissions to help decide who on the project can view what information
- 4. Integrate with 4D models for schedule and sequencing views
- **5.** Configure forms to your team's needs and export them to your own PDF for archiving







## **SYNCHRO Perform**

#### Solution for: Productivity Tracking

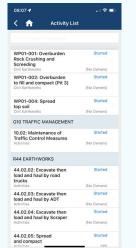
**Built for:** 

Superintendents, Foremen, Project Managers, Safety Managers, Quality Managers

- SYNCHRO Perform is a web and mobile solution that provides deep, real-time insights into project performance.
- Operations teams can more effectively manage time tracking, monitor daily costs, and optimize resources. With rich project insights, teams make better and quicker decisions to minimize project errors and maximize team productivity.

- 1. Optimize resource management
- 2. Monitor and perform action on daily cost reporting and analytics
- 3. Understand the impacts of events on schedule and budget
- **4.** Capture project progress in field in real-time on your mobile device for true project health
- 5. Create site records, such as daily diaries, unplanned events, and progress for a true record

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| Progress<br>Resources<br>Atlandance<br>Time & Usage<br>Dockets<br>Roaters            | Reveal Budget Lation A<br>Complete<br>Disclose<br>2015 Stewards<br>825 Frunctions<br>825 Structure Stand<br>946 Explorent Invall<br>955 Option & Inste  | Revised Parmet Latour            | Rented Back<br>(2007 A)<br>(2017 A)<br>(2018 A) | 1,504.0<br>8,755.0<br>8,755.0<br>8,755.0<br>4,660.0   | Adi<br>Revised<br>Earned<br>Lohur<br>28,4870<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,7 | 41.3804<br>24.5758<br>13.883<br>4.7855<br>93.7829<br>11.9534<br>3.8254                      | 101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%  | % Cory<br>\$7<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  |   | 10<br>Enforce Revised<br>Parried Start<br>01-045-2019<br>13-Feb-3020<br>09-Max-3020<br>13-Apro-3020<br>13-Apro-3020<br>09-April - 2020<br>09-April - 2020<br>09-April - 2020 | 18<br>0.72<br>28<br>29<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20      | La<br>Exter Acus<br>Stat               | 100<br>0.99<br>24-Apr 2022<br>06-Aug 202<br>07-Aug 202<br>23-Sep 202<br>23-Sep 202<br>06-0x0202   | 3M<br>MT<br>00<br>00<br>00<br>00  |
| Progress<br>Resources<br>Atlandance<br>Time & Usage<br>Dockets<br>Rosters<br>Reports | Reveal Budget Lation A<br>Complete<br>2000010<br>2013 Streachs<br>2015                                  | Revised Parmet Latour            | Revised Ear<br>Compare<br>20(,487.30<br>16,207.30<br>1564.30<br>1564.30<br>1564.30<br>162,755.30<br>4,080.30<br>132,146.30  | nel Labour<br>Panied<br>Labour<br>1,504 5<br>K,215 | Adv<br>Revined<br>Earned<br>Latinur<br>10,716 1<br>10,716 1<br>10,716 3<br>10,716 3<br>10,716 3<br>10,716 3<br>10,716 3<br>10,716 3<br>10,716 3<br>10,716 4<br>10,716 4<br>10,   | Attal<br>Libor<br>24,5758<br>13,5853<br>4,7855<br>93,7825<br>11,953,4<br>3,38254<br>48,7877 | 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| 120<br>120<br>120<br>020<br>030<br>035<br>035<br>035<br>035 | 10<br>201605 Favored Start<br>24 Autor Start<br>24 Autor Start<br>25 Autor 2022<br>25 Autor 2023<br>21 Apr 2020<br>21 Apr 2020<br>21 Apr 2020                                | 18<br>0.72<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2                            | 50<br>Estect.Acus<br>501<br>01-00-2219 | 130<br>0.99<br>24-Apr 2022<br>01-Apr 2022<br>01-Apr 2022<br>01-Apr 2022<br>01-Apr 2022<br>01-Apr 2020<br>01-Apr 20 | 3H<br>MT<br>00000000000000000000000000000000000                                   |
| Progress<br>Resources<br>Atlandance<br>Time & Usage<br>Dockets<br>Roaters            | Reveal Budget Lation A<br>Complete<br>Disclose<br>2015 Stewards<br>825 Frunctions<br>825 Structure Stand<br>946 Explorent Invall<br>955 Option & Inste  | Revised Parmet Latour            | Rented Back<br>(2007 A)<br>(2017 A)<br>(2018 A) | 1,504.0<br>8,755.0<br>8,755.0<br>8,755.0<br>4,660.0   | Adi<br>Revised<br>Earned<br>Lohur<br>28,4870<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,710<br>10,7 | Attal<br>Libor<br>24,5758<br>13,5853<br>4,7855<br>93,7825<br>11,953,4<br>3,38254<br>48,7877 | 101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%<br>101.0%  | % Cory<br>\$7<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  | 120<br>120<br>120<br>020<br>030<br>035<br>035<br>035<br>035 | 10<br>Enforce Revised<br>Parried Start<br>01-045-2019<br>13-Feb-3020<br>09-Max-3020<br>13-Apro-3020<br>13-Apro-3020<br>09-April - 2020<br>09-April - 2020<br>09-April - 2020 | 18<br>0.72<br>28<br>29<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20      | La<br>Exter Acus<br>Stat               | 100<br>0.99<br>24-Apr 2022<br>06-Aug 202<br>07-Aug 202<br>23-Sep 202<br>23-Sep 202<br>06-0x0202   | 3H<br>MT<br>00000000000000000000000000000000000                                   |





## **SYNCHRO 4D**

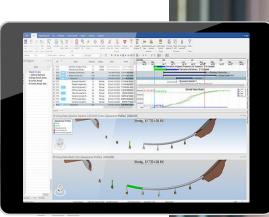
Solution for: Visual Planning and Scheduling

#### **Built for:**

Planners, Schedulers, Estimators, Virtual Design and Construction Engineers, BIM Managers

- SYNCHRO 4D is the industry-leading modeling solution that enables teams to turn design models into construction models with cutting-edge model-based QTO, scheduling, and construction simulations.
- Teams can plan, optimize, and track projects in a single visual, as well as identify issues and "what-if" scenarios early. 4D environment enables teams to reduce project risks and delays, and avoid costly rework.

- 1. Take control of time by adding scheduling to your models
- **2.** Leverage model based QTO and create visual representations of your estimates
- **3.** Optimize construction tasks by reviewing with stakeholders in an immersive environment
- **4.** Plan and collaborate virtually to anticipate "what-if" scenarios and avoid mistakes in the field
- 5. Tackle the spatial challenges of linear projects and share real-time progress updates on the fly







## **SYNCHRO Capabilities Chart**

| Extended team data access and review                   | SYNCHRO<br>Field | SYNCHRO<br>Control | SYNCHRO<br>Perform | SYNCHRO<br>4D | Productivity tracking                                     | SYNCHRO<br>Field | SYNCHRO<br>Control | SYNCHRO<br>Perform | SYNCHRO<br>4D |
|--|------------------|--------------------|--------------------|---------------|---|------------------|--------------------|--------------------|---------------|
| Task access, review, and comment                       | •                | •                  | •                  | •             | Detailed project reporting, dashboards, and data analysis |                  |                    | •                  | •             |
| Document and data access                               | •                | •                  | •                  | •             | Aggregate performance data                                |                  |                    | •                  | •             |
| Field data capture                                     | •                |                    | •                  |               | Cost and change management                                |                  |                    | •                  | •             |
| 4D model review and comment                            | •                | •                  |                    | •             | Resource management, equipment tracking,                  |                  |                    | •                  | •             |
| Field execution and mobility                           |                  |                    |                    |               | and inspections   |                  |                    | •                  | •             |
| Documents to the field                                 | •                | •                  |                    |               | Material management                                       |                  |                    | •                  | •             |
| Access project's 3D/4D models on a mobile device       | •                |                    |                    |               | Commissioning and handover                                |                  |                    | •                  | •             |
| Create issues, RFIs, daily logs, and other custom form | •                |                    | •                  |               | Timecards and HR active directory                         |                  |                    | •                  |               |
| types through a mobile app                             | •                |                    | •                  |               | ERP integration for progress and time                     |                  |                    | •                  |               |
| Model-based progress tracking                          | •                | •                  |                    | •             | Work packages   |                  |                    | •                  | •             |
| Quality inspections                                    | •                | •                  | •                  |               | 4D/5D visual planning                                     |                  |                    |                    |               |
| View and update status of model-based resources        | •                |                    |                    | •             | View models   | •                | •                  |                    | •             |
| View and update schedule tasks                         |                  |                    | •                  | •             | Manage models   |                  | •                  |                    | •             |
| Checklists/punch lists                                 | •                | •                  | •                  | •             | 4D model-based schedules and simulations                  |                  | •                  |                    | •             |
| Project management                                     |                  |                    |                    |               | Constructible model splitting                             |                  | •                  |                    | •             |
| Document management                                    |                  | •                  |                    |               |   |                  |                    |                    | •             |
| Issue and RFI creation                                 |                  | •                  | •                  | •             | Model-based quantity takeoff                              |                  |                    |                    | •             |
| Issue and RFI management                               |                  | •                  | •                  |               | Model-based work planning                                 |                  |                    |                    | •             |
| Notifications  |                  | •                  | •                  | •             | Model-based project insights                              |                  | •                  |                    | •             |
| Map and location services                              |                  | •                  | •                  |               | Model cloud/CDE collaboration                             | •                | •                  |                    | •             |
| 4D schedule collaboration                              |                  | •                  |                    | •             | Links to third-party applications                         |                  | •                  |                    | •             |
| 4D model collaboration                                 |                  | •                  |                    | •             | ISO processing  |                  |                    |                    |               |
| Inspections and completions                            |                  | •                  | •                  | •             | Model aggregation   |                  | •                  |                    | •             |
| Project insights and dashboards                        |                  | •                  | •                  | •             | CPM scheduling, CPM analysis, and resource leveling       |                  |                    |                    | •             |

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## **SYNCHRO User Stories**

SYNCHRO helps teams across industries meet their goals and deliver successful projects.



Project Controls Cubed LLC

**EchoWater Project** 

Sacramento, California, United States

Full user story >



Proicere Digital Ltd

Sellafield Retreatment Plant (SRP) Project

Seascale, Cumbria, United Kingdom

Full user story >



Solid Support

Alfred Street Bridge Project

Parramatta, New South Wales, Australia

Full user story >



#### Laing O'Rourke

Everton Stadium Football Club Project

Liverpool, Merseyside, United Kingdom

Full user story >



## **SYNCHRO**

To deliver successful projects, you need to empower your teams, both in the office and the field, with the right digital tools to simplify tasks and meet deadlines and budgets—all while keeping everyone connected and on the same page.

SYNCHRO gets you there, so your teams can work faster, better, and safer.

Start your SYNCHRO journey, today!



Try SYNCHRO 4D free >

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#### Find us on LinkedIn >

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