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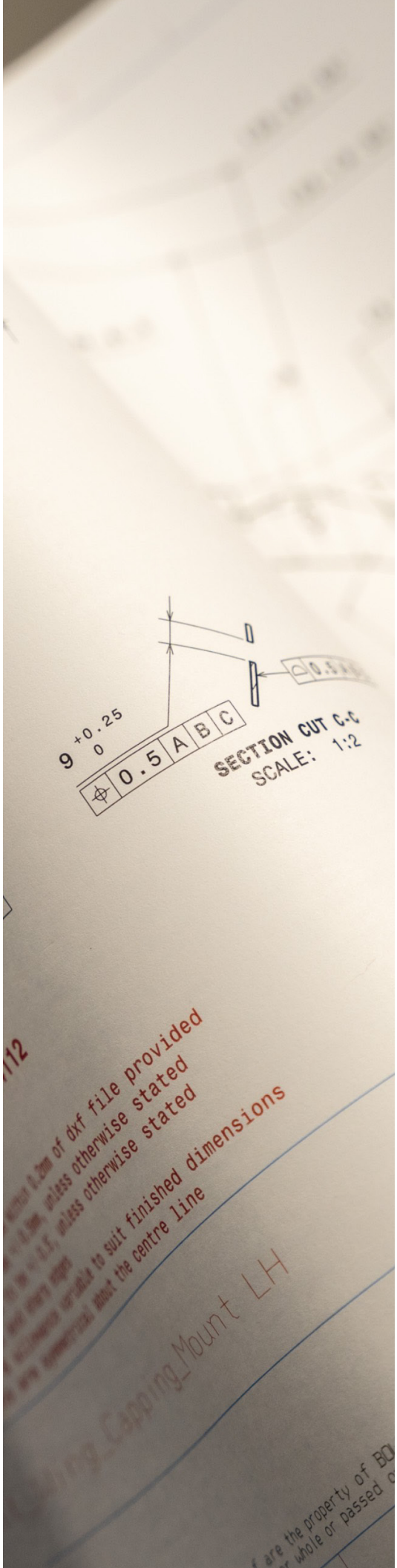
ENGINEERING THAT KEEPS MOVING

How coordinated engineering teams across time zones can extend the productive engineering day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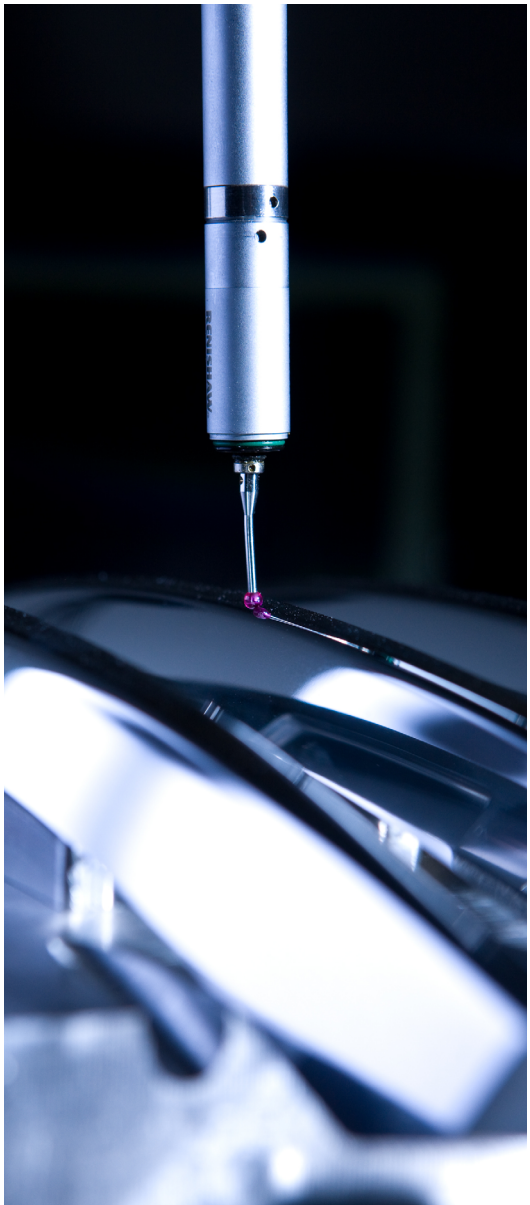

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THE ENGINEERING-CAPACITY CHALLENGE

Engineering teams are being asked to deliver more in less time.

These days, engineering teams are managing increasing program demands, compressed development schedules and fluctuating workloads. At the same time, specialist skills can be difficult to recruit quickly, while permanent headcount may not be justified for a temporary program peak.

The result is not a lack of technical capability. Often, the challenge is that the required engineering capacity is unavailable at the moment the work is ready to progress.

Work waits in queues, decisions are delayed, senior engineers become occupied with routine activities, and progress stops until the next local working day.

- Engineering backlogs
- Compressed program timelines
- Recruitment and onboarding delays
- Fluctuating workloads
- Specialist skills shortages
- Too much routine work occupying senior engineers
- Limited ability to add permanent headcount

WHY ADDING MORE PEOPLE IS NOT ALWAYS THE ANSWER

Additional headcount does not always solve the problem.

When demand increases, the instinctive response is often to recruit more engineers. However, recruitment takes time, specialist skills may not be immediately available and permanent hires create long-term costs beyond the immediate program requirement.

Traditional outsourcing can also be an option but introduces its own problems when work is transferred between disconnected teams without sufficient technical context, communication or accountability.

The requirement therefore is not simply “hire more people”, but instead access to the right engineering capability, at the right time and within a delivery structure that integrates well with the team and its existing processes and workflows.

EFFECTIVE ENGINEERING CAPACITY COMBINES

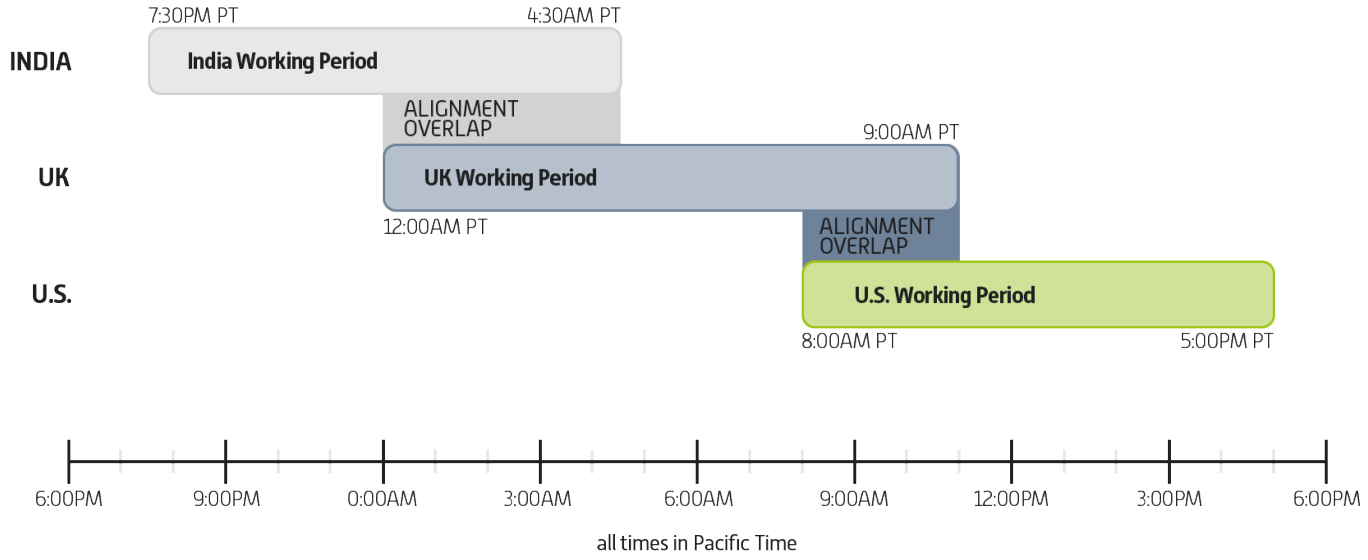
resource • technical ownership • communication • controlled delivery

THE EXTENDED DAY ENGINEERING MODEL

Extending productive engineering coverage across regional working hours.

Envisage's proven extended day engineering model coordinates engineering resources across India, the UK, and the U.S. to create a longer productive working window for your programs.

Our planned overlap periods are built in to ensure alignment, quality, clarity, and continuity while independent working periods allow each region to progress work without delay.



UP TO 18 HOURS OF PRODUCTIVE ENGINEERING COVERAGE

Specific coverage depends on the agreed delivery structure, workstream and regional resources.

HOW THE MODEL WORKS FOR THE CLIENT

Moving from capacity requirement to active engineering support.

01	**Define the requirement**	We work with you to understand the scope, objectives, priorities and success criteria.
02	**Establish the delivery structure**	We align the team, roles, responsibilities and workstream plan across regions.
03	**Agree the working environment**	Access, tools, data protocols and communication channels are confirmed and provisioned.
04	**Align during shared working periods**	Teams connect during overlap windows to review status, clarify actions and plan the handover.
05	**Continue defined activities**	Each region progresses agreed work independently within its working period.
06	**Review, report and adjust**	We provide viability, measure outcomes and adjust the plan for continuous improvement.

Support can be established in as little as one week

subject to scope, access, and resource availability

WHY OVERLAP MATTERS

The model is built around continuity, rather than disconnected handovers.

Overlap periods reduce the risk of teams working for hours in the wrong direction. They enable quick alignment, shared understanding and confident progression of complex engineering work.

A structured continuity review during each overlap window ensures nothing important is missed.

Current task status	What's in progress and where things stand.
Completed activity	What's been finished and verified.
Open technical questions	What needs clarification and resolution.
Required decisions	What decisions are pending and by whom.
File and revision references	Key files, versions, and update locations.
Risks and dependencies	What could impact delivery or timing.
Next action owner	Who is doing what, by when.

> **What makes this program different is that the overlap creates a shared understanding while the regional working periods create additional productive time, all coming together to accelerate processes noticeably.**
>
> **Craig Bonham**
> Envisage's Director of Engineering on Client Feedback

GOVERNANCE, QUALITY AND DATA PROTECTION

Extended coverage without reduced control.

Before work begins, Envisage and the customer agree on how the engagement will operate. This ensures clarity, accountability and protected data throughout the delivery.

Technical responsibilities
Clear ownership of scope, tasks and deliverables

Review and approval requirements
Defined checkpoints, approvals and sign-offs

Communication routes
Named contacts, channels and meeting cadence

Reporting expectations
Agreed metrics, status reporting and visibility

Escalation procedures
Path for issue resolution and timely escalation

Engineering standards
Applicable standards, methods and best practices

Documentation requirements
Templates, formats and retention expectations

Data-access protocols
Access levels, security controls and audit trail

OPERATING ENVIRONMENT

Engineers may work within the customer's approved systems or through Envisage's controlled infrastructure.

Technical approval and release responsibilities remain aligned with your governance process.

WHERE THE MODEL CREATES THE MOST VALUE

Best suited to defined, controllable engineering activities.

The extended day engineering model delivers the greatest value when workstreams have clear inputs, outputs, technical responsibilities and documentation requirements. These conditions enable structured alignment and consistent progress across regional working periods.

It is ideal for repeatable, knowledge-based work where progress can be made independently once alignment is established.

- CAD modeling
- Drawing creation and updates
- Design engineering
- Engineering changes
- Packaging studies
- Component development
- Technical documentation
- Engineering analysis

BEST WHEN ACTIVITIES ARE:

well-defined • repeatable • documented • reviewable

FLEXIBLE CAPACITY WITHOUT PERMANENT HEADCOUNT

Engineering support that adjusts with your program demand.

Clients work with us using an agreed allocation of engineering support hours. Those hours can be deployed across approved workstreams according to current program priorities.

As the allocation is used, additional hours can be added when required. This provides a flexible alternative to increasing headcount while getting more hours per day and accelerating processes.

INITIAL ALLOCATION
Agree the required engineering hours, disciplines and priorities

HOURS DEPLOYED
Engineering hours are applied across approved workstreams

ADDITIONAL HOURS ADDED
Increase support as program demand evolves

Respond to workload peaks and compressed schedules

Access wider specialist capability across disciplines

Adjust support over time as needs change

Maintain control, quality and accountability

> **The goal is not just adding more engineers but actually making the right capability available when the program needs it.**

IS THIS MODEL RIGHT FOR YOUR PROGRAM?

Use this checklist to help determine whether the model might be the right fit for your program.

- ☐ Is engineering work regularly waiting for available internal resources?
- ☐ Are workload peaks affecting delivery schedules?
- ○ Are specialist skills difficult to recruit quickly?
- ○ Can the required activities be structured into defined work packages?
- ○ Are senior engineers occupied with routine or high-volume activities?
- ○ Can controlled system access be provided?
- ○ Are responsibilities, standards and outputs clearly documented?
- ○ Would flexible engineering hours solve the immediate constraint?
- ○ Could planned overlap periods be built into the program?

If several of these challenges are affecting your program, an extended day engineering model may provide a more flexible way to increase capability and reduce avoidable waiting time.

ABOUT ENVISAGE

Engineering capability. Delivered together.

Envisage Group Developments Inc. is an engineering and design service provider supporting OEMs and Tier 1 suppliers across the automotive, aerospace and mobility sectors.

We combine technical excellence with a collaborative approach to help our clients solve complex engineering challenges, accelerate programs and bring better products to the market.

Through coordinated teams across the U.S., UK and India, we provide additional engineering capacity that is designed to integrate with your systems, processes and ways of working.

EXPERIENCED ENGINEERS
Cross-industry expertise

GLOBAL PRESENCE
U.S., UK and India delivery

QUALITY FOCUSED
Processes to ensure OEM quality

PARTNER APPROACH
Integrated, flexible and accountable

Read more about Envisage

Contact us for a consultation

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