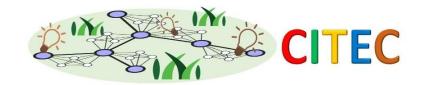


Cross-Industry Technology Exploitation in Clusters (CITEC)

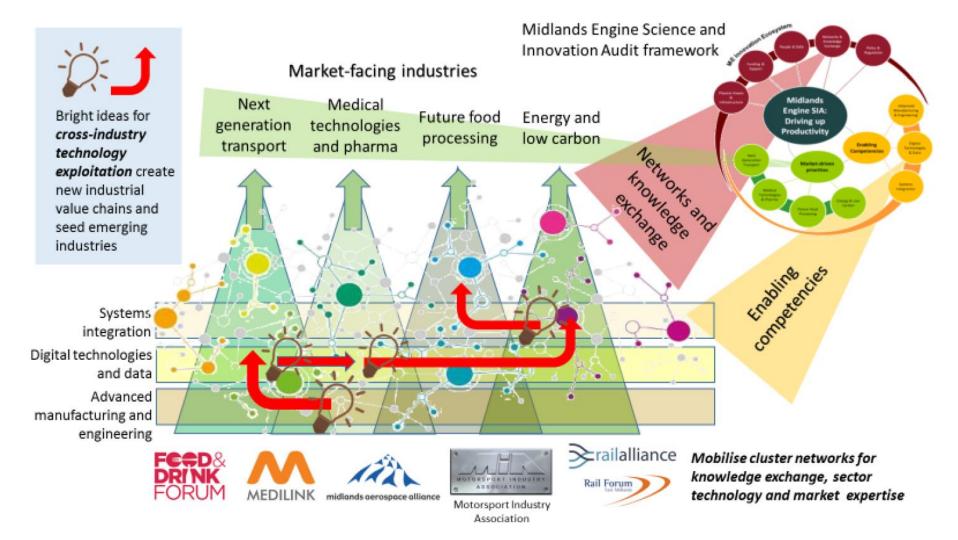


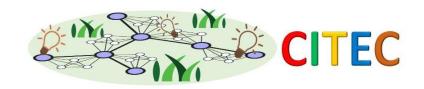
CITEC: *systematic* cross-sector technology exploitation

- Cross-industry technology exploitation already occurs but piecemeal and sporadically. Here are some examples:
 - Using sugar cane waste from the food industry to create less hazardous, ecologically sustainable and fire-resistant resins for composite aircraft interiors.
 - Technology which protects Formula One drivers in the event of a crash is used to create a safe environment for new-born babies needing emergency transportation.
 - A company transformed from a manufacturer of car shampoos to a specialist in infection control products for the healthcare and dental markets.
 - Spray-on quick drying polyurea coatings used for the beds of pick-up trucks now provide insulation for the underside of railway bridges, tunnels and railway electrical transformer boxes.
- CITEC would systematically exploit the potential of cases like these, to support companies to develop their product and process technologies for exploitation in new and emerging markets.

CITEC

CITEC concept: linking to Science and Innovation Audits





CITEC pilot proposal

- Launch with pilot to test system
 - Transfer and adapt aerospace experience
 - Three-four collaborative R&D projects (competitive bidding, private matched funding).
 - Budget c.£500k
 - Pilot with projects across transport sectors (automotive, motorsport, rail, aerospace), supported by end users and cluster bodies.

CITEC programme delivery

- Full delivery phase
 - Could be a £40m programme to develop 200 new technologies
 - Broaden out across all WMIP sectors
 - Recognise different sectors may have different innovation models
 - Delivering CITEC at scale can
 - address market opportunities in innovative ways
 - support supply chain innovation themes of sector action plans (support smaller or emerging sectors with a shared infrastructure)
 - make step change to West Midlands supply chain innovation ecosystem including buy-in from big end users (aerospace now has 150 ATEP/NATEP projects across UK)
 - underpin a West Midlands "super cluster"

Major new market opportunities

Future of mobility

Data driven health and life sciences Creative content, techniques and technologies

Modern services

A distinctive economy - Creative and innovative, with global supply chain strengths a diverse and young population, well connected, trading and entrepreneurial.

Unique opportunities ahead in the Commonwealth Games and City of Culture.

Sector strengths Metals & Logistics / Low carbon Aerospace technology materials transport Precision technology Energy and Innovative component clean growth manufacturing **Future mobility** supply chains Life sciences **Professional** Construction Rail skills Digital rail Offsite modern Devices Skills and a full manufacturing Diagnostics. High Speed 2 services sector real life testing Land remediation Food & drink **Creative Automotive Tourism** Games. Next Gen Machinery, Shakespeare's Battery content, process **England** development food & fluid and product control tech, Drive train Commonwealth design and Games Photonics R&D CAV designer maker Business City of Culture

Actions to unblock barriers to productivity and growth, integrated in places and communities to drive inclusion

Foundations of productivity - drivers and enablers of growth

People, skills & employment

Infrastructure & environment

Ideas / Innovation Business environment

Place