

ARCs: Project Scope

The ARCs project scope encompasses the delivery of two core pillars: **Physical ARC** and **Devolved ARC**. Extensive consultation work led to a **glidepath approach** for the delivery of physical ARC functions: **1. liver (or lungs) 2. lungs (or liver) 3. kidney 4. heart.**

While funding has not been confirmed to set up a physical ARC facility, NHSBT has agreed in principle to provide project management and business case expertise to regional trust-level ESMP initiatives.



Physical ARC

A physical ARC includes the use of a GMP facility on existing hospital premises, equipment, consumables, people and logistics required for establishing a single location where 'marginal' organs would be sent to be machine perfused and repaired ahead of transplantation.

Business case proposals:

- **Location:** Two UK ARC locations, **delivering a multi-organ ARC service.** The following principles should be considered when choosing the sites: Existing expertise, Available facilities, Geographical reach, Population density
- **Resources:** Consultant Surgeon, Perfusion Specialists, Project Manager, PMO Resource, Policy Lead, Governance Lead, Procurement Lead, Finance Lead (PT), Regulatory Manager, Training Resource, Additional transportation (escorted)



Devolved ARC

The Devolved ARC refers to the clinical forums and data analysis that is required to ensure that the ARCs project is effectively delivered.

Business case proposals:

- Clinical Steering Group / FTWGs
- Defining organ-specific national protocols and processes
- Tactical Data MP Solution
- Training and Research



Devolved ARC Scope

A main component of the ARCs project is to disseminate machine perfusion learnings and knowledge across transplant centres, this is known as the **Devolved ARC**. The Devolved ARC aims to virtually share machine perfusion materials and useful data with clinicians, allowing them to make yet **more informed transplant decisions** when using machine perfusion technology.

ORGAN-SPECIFIC MP FTWGs

- **Chair:** Machine Perfusion Experts
- **Members:**
 1. Rep from each adult centre (Centre Directors to assign)
 2. OL CLU
 3. Advisory Group rep
 4. NHSBT Hub Ops, Transport, Stats, Governance
 5. Retrieval Rep
 6. Recipient Coordinator
- **Occurrence:** Monthly
- **Remit:**
 - Organ usability criteria (for MP)
 - Organ Offer / Acceptance process
 - Tactical Data Solution
 - Outcome reporting
 - Transportation

OUTPUTS



The implementation of a short form-based **Tactical Data Solution** to capture machine perfusion data points that will enable rich insights and analysis



MP standards, protocols and other data repositories collated on the FutureNHS platform, allowing clinicians across the UK to access **machine perfusion learning materials**



The facilitation of academic research by creating standards and protocols that do not stifle **innovation** and by centrally collating machine perfusion data



Ensuring regulatory bodies such as the HTA and MHRA create **licensing frameworks** that ensure patient safety, yet encourage innovation



Ex-situ **machine perfusion accreditations** for new perfusion specialist roles, based on the learnings from the FTWGs



Next steps



Outline business case developed and shared with UK Commissioners and health departments. Await confirmation of funding allocation.



Continue to fixed term working groups to finalise and deliver **data sets**



Continue with work regarding **governance, policies and protocols**



Reduced team so work will be slower until funding confirmed