**Product / Service:** Outsourced Science Services (e.g. Diagnostic Services, Clinical Trials)

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| --- | --- | --- | --- |
|  | **Negative Impacts / Risks** |  | **Positive Opportunities** |
| **Environmental** | * Production of consumables – high carbon production process, including non-recyclable & non-renewable materials & water (impact on biodiversity / mining impacts)
* Samples / consumables may be hazardous by nature and result in hazardous waste (expensive to transport, store & dispose of)
* Energy use of storage equipment (carbon impact) e.g. refrigerators
* Vehicle fuel & emissions (carbon impact) – high pick-up & delivery frequency (small volumes) e.g. samples / consumables
* Samples / consumables may be transported in excessive packaging
 | * Computer modelling techniques in research may avoid use
* Energy efficient storage equipment (e.g. EnergyStar)
* Consolidated orders, pick-ups & delivery
* Low CO2 vehicles for pick-ups & delivery
* Greater use of electronic results delivery (to avoid physical deliveries)
* Reduction in, or use of recycled materials, in packaging (where this does not introduce health and safety risks in transit/storage)
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| **Social** | * International supply chains (potential for issues such as child labour / poor pay & working conditions / health and safety breaches)
* Frequency & timing of pick-ups & deliveries – congestion & noise impacting residents
* Health & safety risks when transporting & storing hazardous samples / consumables
 | * Potential investment in apprenticeships
* Consolidated orders, pick-ups & deliveries (including shared contracts)
* Potential benefit to society in identifying solutions to medical problems

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| **Economic** | * Potential duplication of purchases across multiple sites - disconnected orders / multiple delivery charges
* Cost of energy used by equipment e.g. cold storage samples
* Waste disposal costs of samples / consumables (may be hazardous by nature)
 | * Rationalise suppliers & deliveries
* Energy efficient equipment (e.g. EnergyStar) – reduce energy bills
* Spend supports investment in new products / medical research by suppliers
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**RELATED PROC HE:** DH / LLZ