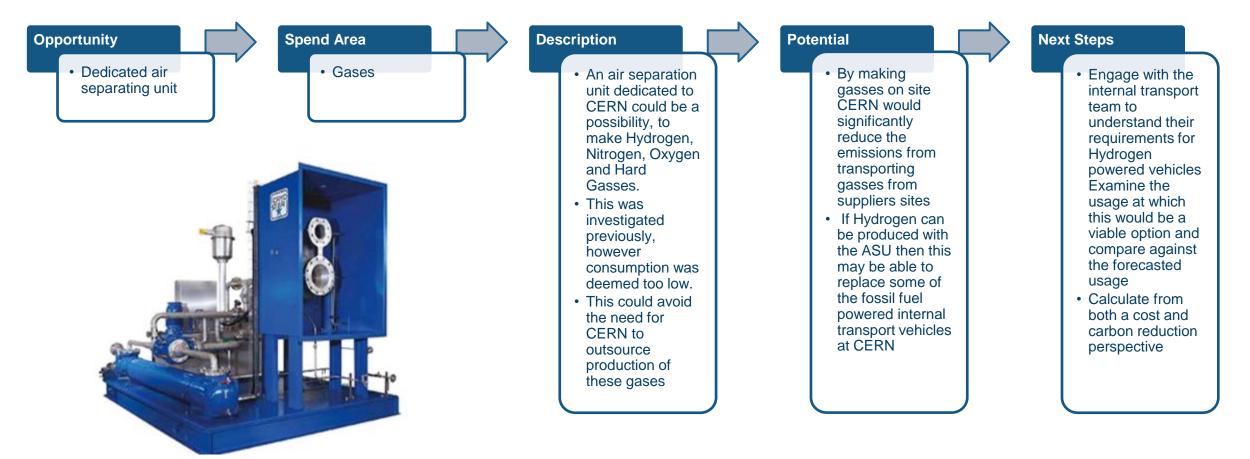
CERP3 Decarbonization Procurement family 09

Gases, chemicals, radiation and waste equipment

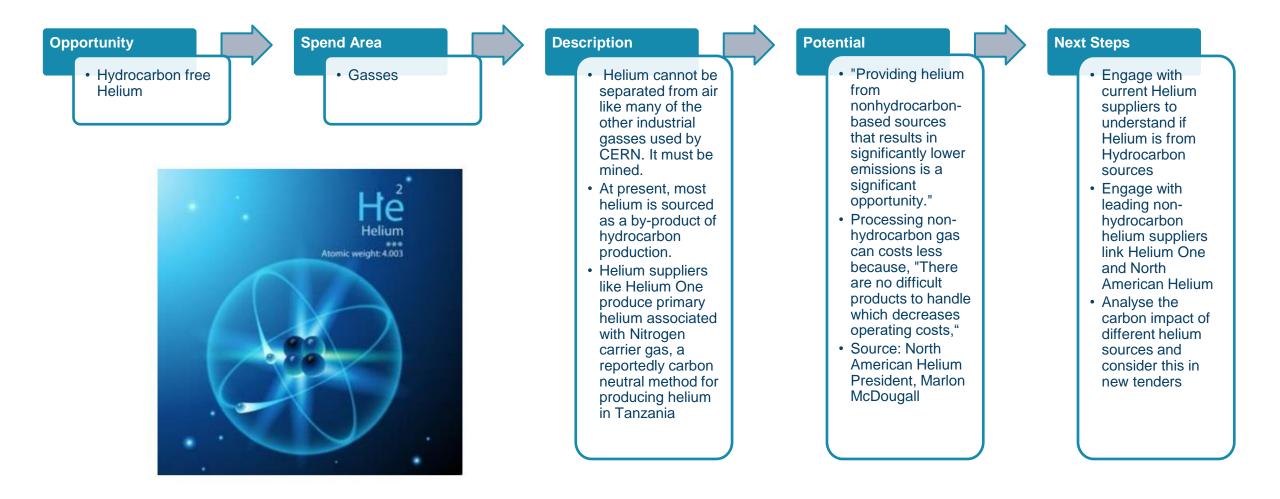
Current Situation in Procurement family 09 Gases, chemicals, radiation and waste equipment

- The majority of spend within this category is on industrial gases, including Nitrogen, Helium, CO2 and Argon.
- Gases are mostly delivered by trucks, with frequent deliveries to 120+ delivery points on site.
- CERN has influence with suppliers as a desirable partner organisation for suppliers and as a major consumer of Helium (buying up to 1% of global demand at peak usage).
- Spend is variable and peaks when LHC is cooled.
- Sustainability has not been a focus of procurement exercises historically.

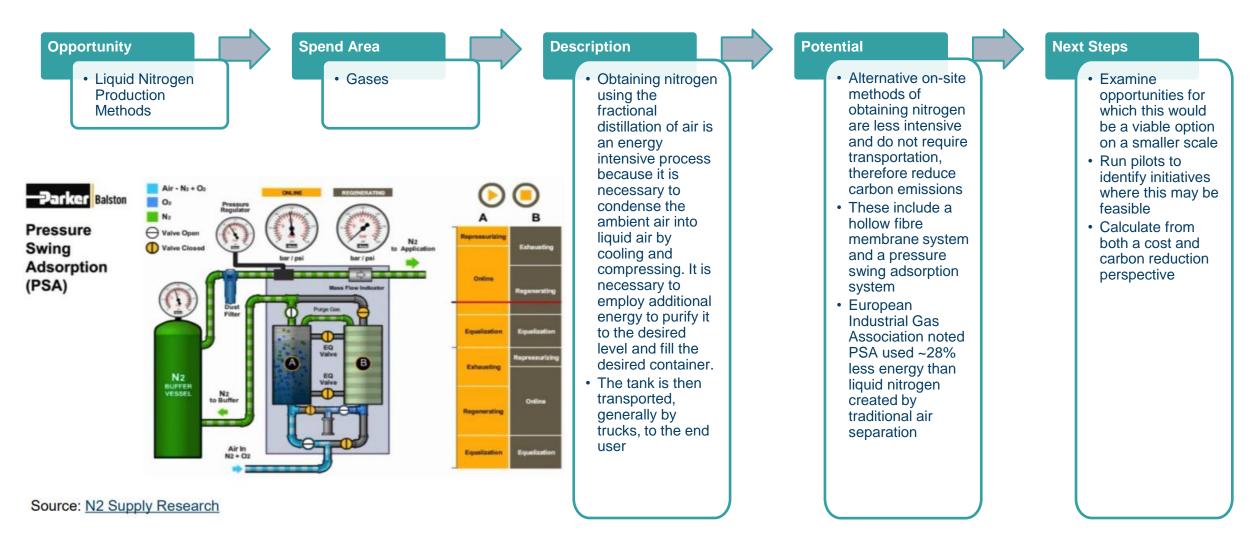
Re-explore the feasibility of implementing a dedicated CERN air separation unit, including Hydrogen generation for internal transport



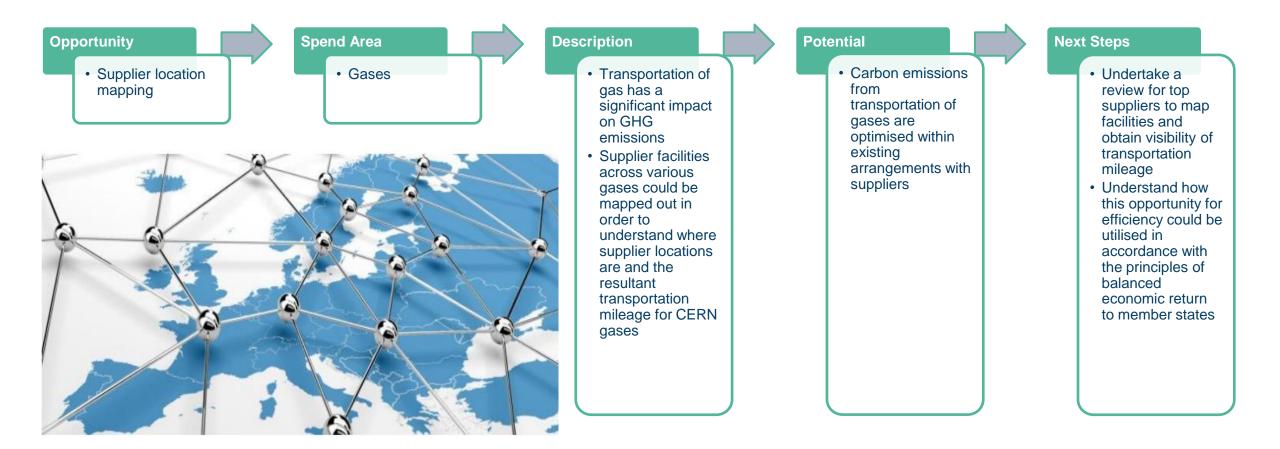
Consider the production method of Helium when making sourcing decisions



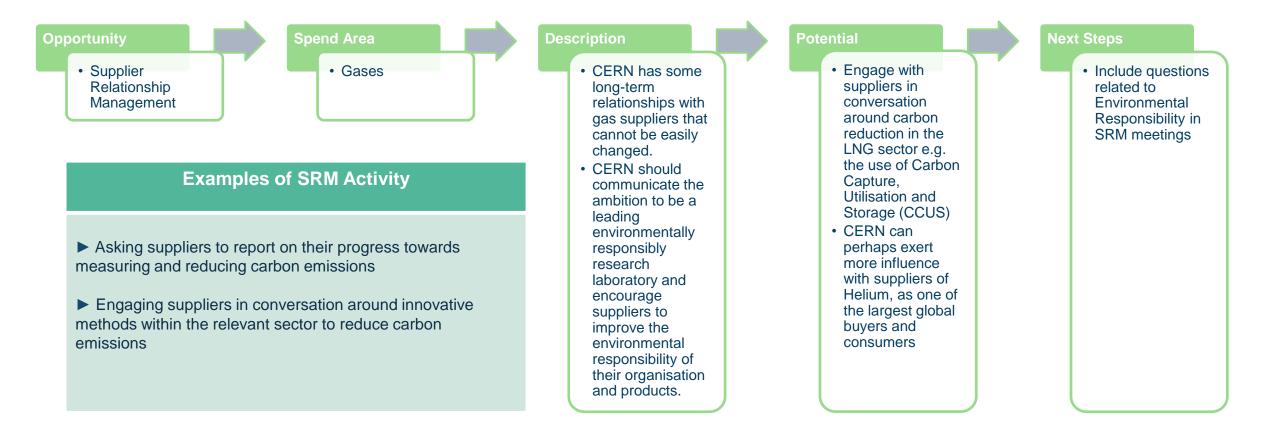
Explore alternative means of producing Liquid Nitrogen, beyond fractional distillation by suppliers



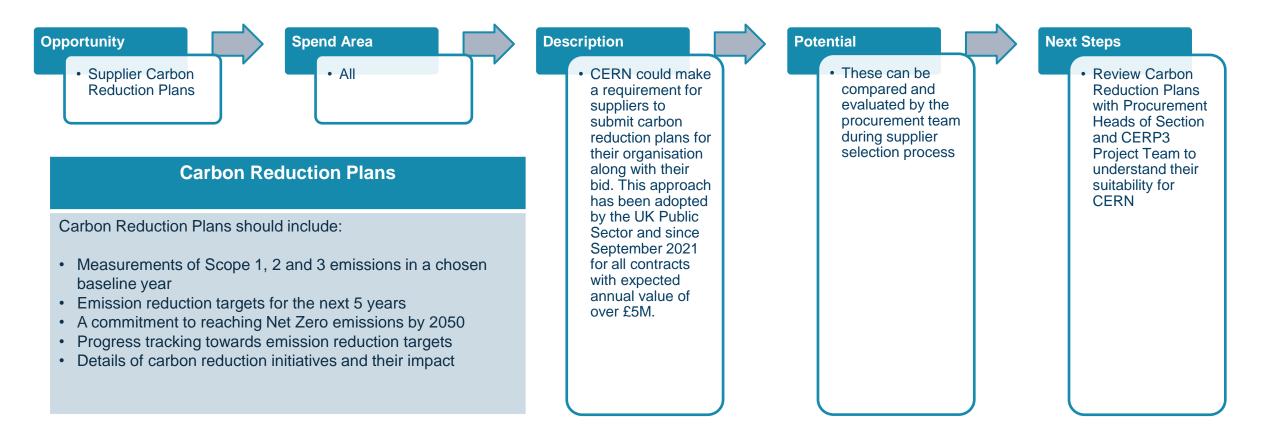
Map suppliers' facilities to reduce transportation mileage



Where CERN have long standing relationships with gas suppliers, time can be invested in SRM activities around Environmental Responsibility



For large contracts, require suppliers to submit carbon reduction plans and evaluate these as part of the bids if using BVFM adjudication



For Environmentally Responsible Procurement actions that rely on supplier collaboration CERN should prioritize working with engaged suppliers

