



Macro area: waste

A2A is looking for solutions that can encourage innovation in the field of waste collection.

Company

A2A is an Italian multiservice company founded in 2008 that operates in the environment, energy, heat, networks and smart city technologies sectors. It is active in the production, distribution and sale of electricity (second in Italy for installed capacity), gas and waste management.

A2A has placed the ecological transition at the heart of its strategy and services: it has always been committed to promoting a sustainable lifestyle in the communities in which it operates. Through a circular approach they value the resources they have under management and help generate new ones, reducing waste to preserve the planet and protect the environment.

A2A develops the production and use of green energy in a virtuous system where, first, waste is collected and then, depending on its type, is reused, repaired, shared and recycled as a material. Finally, the non-recoverable part is transformed into heat and energy through the waste-to-energy process.

Challenge

Digital transformation is redefining the way recycling collection is handled, and the adoption of innovative tools such as IoT devices, digital platforms, artificial intelligence and blockchain are increasing the speed of the transition to a sustainable circular economy. A2A is setting out to fill the room for improvement that still exists to make collection a simple and sustainable process, reducing environmental impact and promoting a greener future.

Through the Waste collection 4.0 challenge, we are looking for innovative ideas that can promote the emergence of projects to digitize the collection process by making the most of the opportunities arising from them, involving students, Ph.D. students and researchers as actors directly involved in the transition to a more sustainable city model.