

Urban Mining

Recovering precious elements from
the largest and untapped source in
the world



TAU Industrial Robotics

tauindustrialrobotics.com



Identification of
precious metals



Select disassembly
of targets

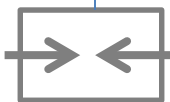


Separation for maximum
efficiency recovery



Disassembly, identification and precious
elements recovery in a single integrated
industrial station

Integrated AI capabilities for smart
chemical analysis and recovery
target identification



Compatible with a board spectrum of
e-waste from different sources (PCBs,
mobile phones, server racks)

Urban Mining

Automated, effective recovery of electronic waste is one of the most fascinating and toughest technological challenges of the 21st century. Tau Industrial Robotics is engaged in a multinational, continental effort on recovery of rare earth and precious metals from the largest precious metals supply in the world: dismissed electronic hardware.

Electronics waste can be recovered

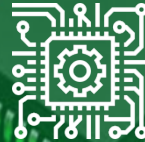
Tau Industrial Robotics is one of the r&d partners and Intellectual Property coordinator of the EU funded ADIR project, a revolutionary technological effort led by Fraunhofer Institute to develop a universal platform capable of recovering precious metals and rare earth materials from electronic waste with unprecedented efficiency and flexibility.

About Tau Industrial Robotics

Tau Industrial Robotics has a decade long experience in semiconductor manufacturing technologies. Our company is developing a assist semiconductor and fables companies in developing, testing and calibrating their devices at different temperature range.



Recovery even of the smallest targets thanks to proprietary disassembly techniques



Integration with waste treatment processes through a single, robotized station



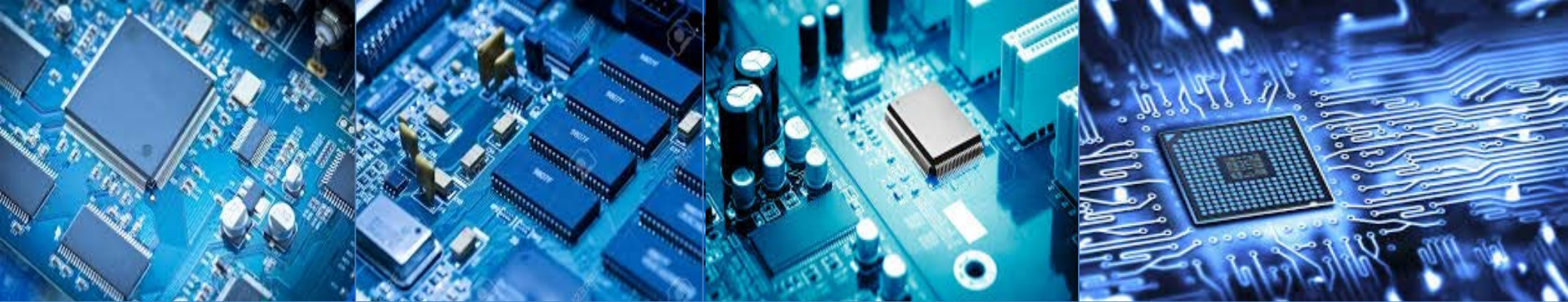
Very high precious metals recovery efficiency ensured by full spectroscopic analysis of targets during disassembly

Technical specifications

Features	Urban Mining
Metals recovered	Au, Cu, In, Ga
E-waste treated	PCBs, assembled board
Target recognition	AI and chemo metric powered
Target recovery efficiency	75%

A closer look at Urban Mining

The project is now in pre-industrialization phase. A full overview of the project is available on www.adir.eu. As a technology contributor to the project, Tau Industrial Robotics's work is focused on the mechatronics and AI algorithmic of RoboMiner, the robotic platform that will perform the physical waste recovery task.



Semiconductors



Urban Mining

Contacts

Italy - Piedmont

Tre Tau Engineering s.r.l.

Via Casalis 33

Torino IT

turin@tauindustrialrobotics.com

Italy - Trentino

Tautronik s.r.l.

Via Marighetto 78

Trento IT

trento@tauindustrialrobotics.com

Russia

Tau Industries OOO

Skolkovo Innovation Center

Ul. Lugovaya 4, Moscow

russia@tauindustrialrobotics.com

UK

Asterope Ltd

Office 31, Central Chambers,

The Broadway, London

info@tauindustrialrobotics.com



TAU Industrial Robotics

tauindustrialrobotics.com