

# Urban Mining

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



TAU Industrial Robotics

[tauindustrialrobotics.com](http://tauindustrialrobotics.com)



Identification of  
precious metals



Select disassembly  
of targets

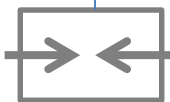


Separation for maximum  
efficiency recovery



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



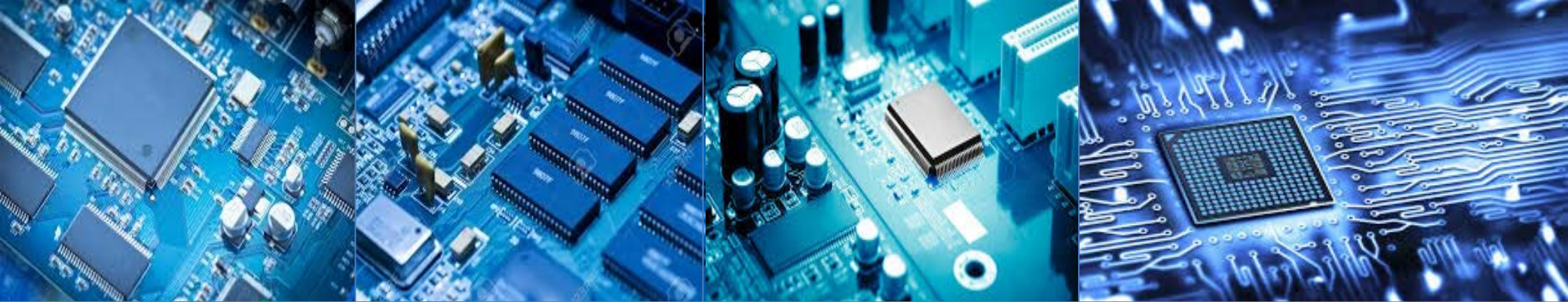
Very high precious metals recovery efficiency ensured by full spectroscopic analysis of targets during disassembly

## 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](http://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

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