



# **BATTERY RECYCLING INNOVATION PARK**

# Ylivieska Business Centre

## Who are we?



**YTEK** is a fully owned organization by town of Ylivieska, Finland (publicly owned)

- Our main purpose is help local companies to be profitable and to help new companies to start up their businesses in town of Ylivieska

### New enterprise services

- Business development services
- Business Services
- Real Estate
  - Partners
  - Our properties Smarthouse and Origo



# Town of Ylivieska

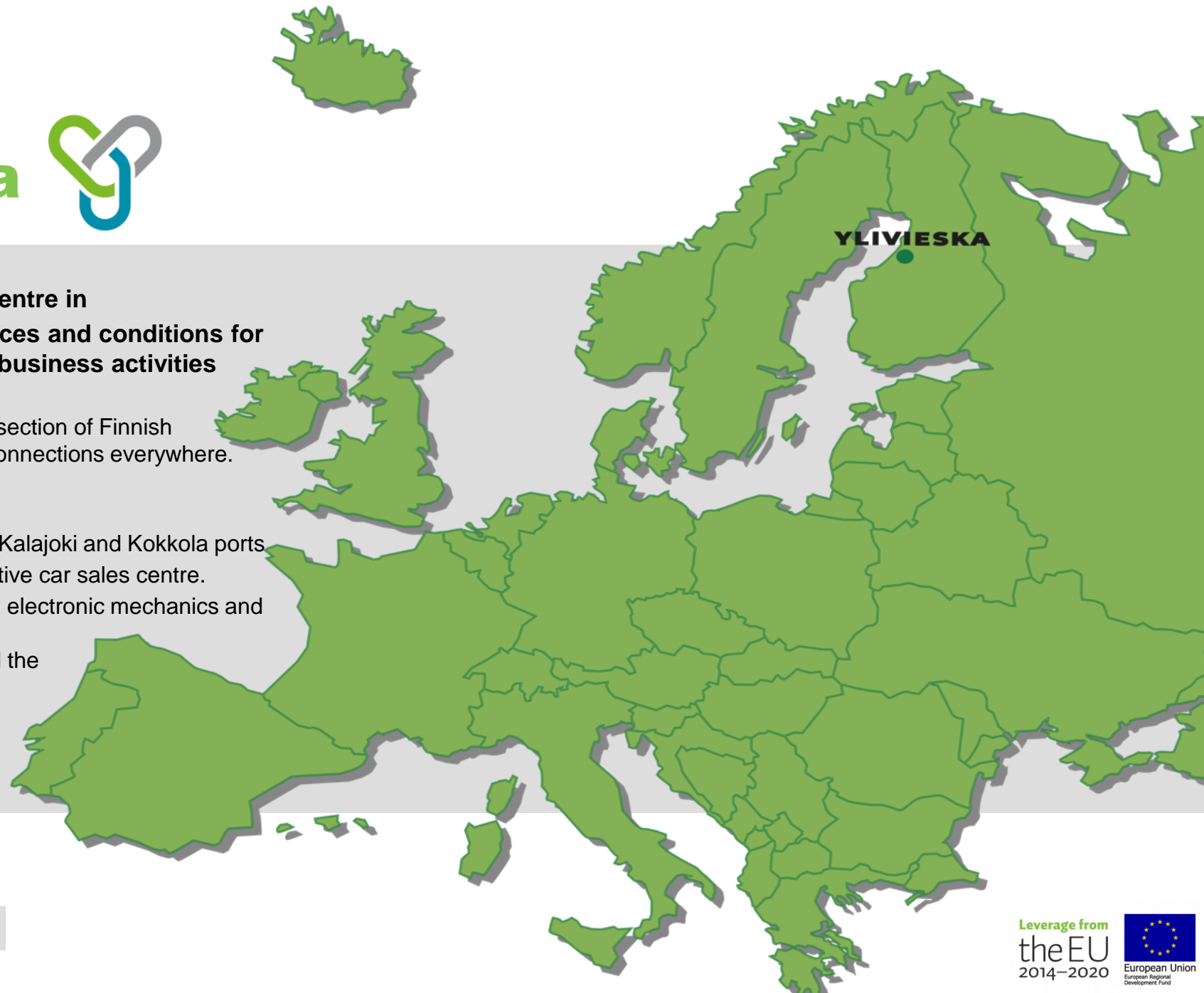


**Ylivieska is a developing and growing regional centre in Northern Ostrobothnia in Finland with good services and conditions for enjoyable living, self-development and versatile business activities**

- Centre of a market area of 100,000 people
- Location by the national main railway and in the intersection of Finnish national road 27 and trunk road 86 guarantees fast connections everywhere.

## **Connections and services**

- Oulunsalo and Kruunupyy airports nearby as well as Kalajoki and Kokkola ports
- Ylivieska is known as a trade centre and as an attractive car sales centre.
- Strong industrial branches include the metal industry, electronic mechanics and the mechanical timber industry.  
The brick industry has a long history in Ylivieska, and the industry remains significant today.



[WWW.YLIVIESKA.FI](http://WWW.YLIVIESKA.FI)

Leverage from  
the EU  
2014–2020



# Centria University of Applied Sciences and Sievi Industrial Park



- Centria's R&I collaborates with companies and organizations to increase their competitiveness. Centria aims at helping companies in developing new products, business ventures and international activities and as well as in the process of entrepreneurship by using our multidisciplinary expertise.



- Sievi Industry Park is a fully owned organization by municipality of Sievi. It produces business services such as facilities, properties and counseling services for the businesses located in the municipality of Sievi.
- It collaborates actively with partners and local companies through development projects and supports businesses in their growth and development activities.





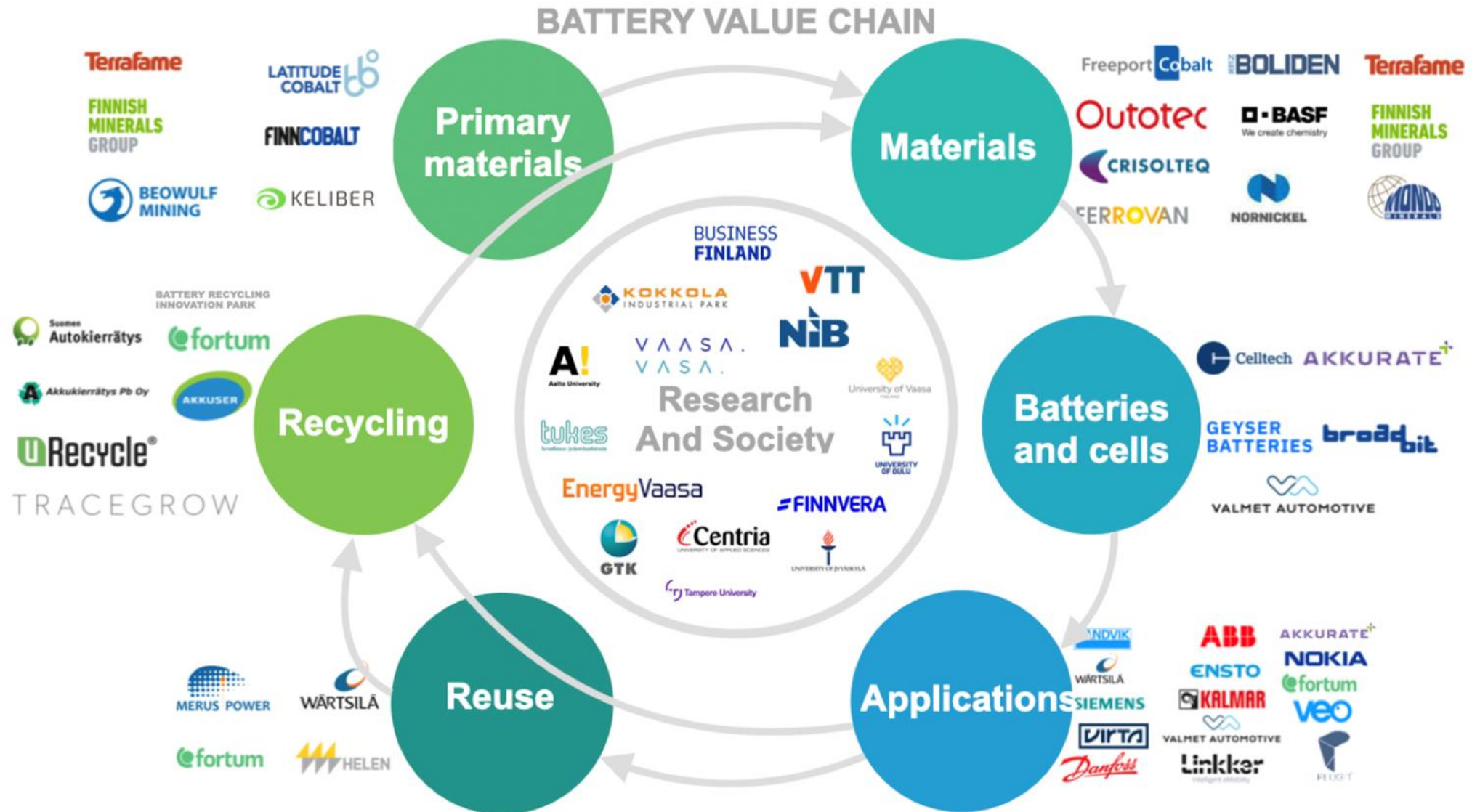
# What Is Battery Recycling Innovation Park?

Battery Recycling Innovation Park can be defined as an ecosystem focused on recycling and circular economy activities where companies and R&D organizations have the opportunity to launch product development projects, business activities and international collaboration in an active and networked operating environment.

Project's goal is to create a platform for innovations in battery and battery materials circular economy and to enable development for existing and new businesses as they become a part of the innovation park business network

- Project is also mapping startups, SMEs, large companies and R&D organizations who will benefit from the location of the new circular economy innovation park and synergies between participants

# Value chain





# Project Workpackages



**Battery Recycling  
Innovation Park  
Development  
Steps**



**Mapping of the  
Residual  
Resource Material  
Flows and  
Usability Cases**



**Biocarbon in  
Battery Industry**



**Equipment and  
Facilities Planning**



**Project  
Coordination**

# WP 2 and 3 main themes



- **Materials Mapping**
- **Recycling & Circular Economy**
- **Automation & Digitalization**
- **Safety**
- **Biocarbon & Graphite**



# WP4 Facilities and equipment planning

- During WP1 a circulation economy network and interest groups will be formed and following procurements are planned accordingly
- Equipment specifications will be planned taking into account participating companies' needs

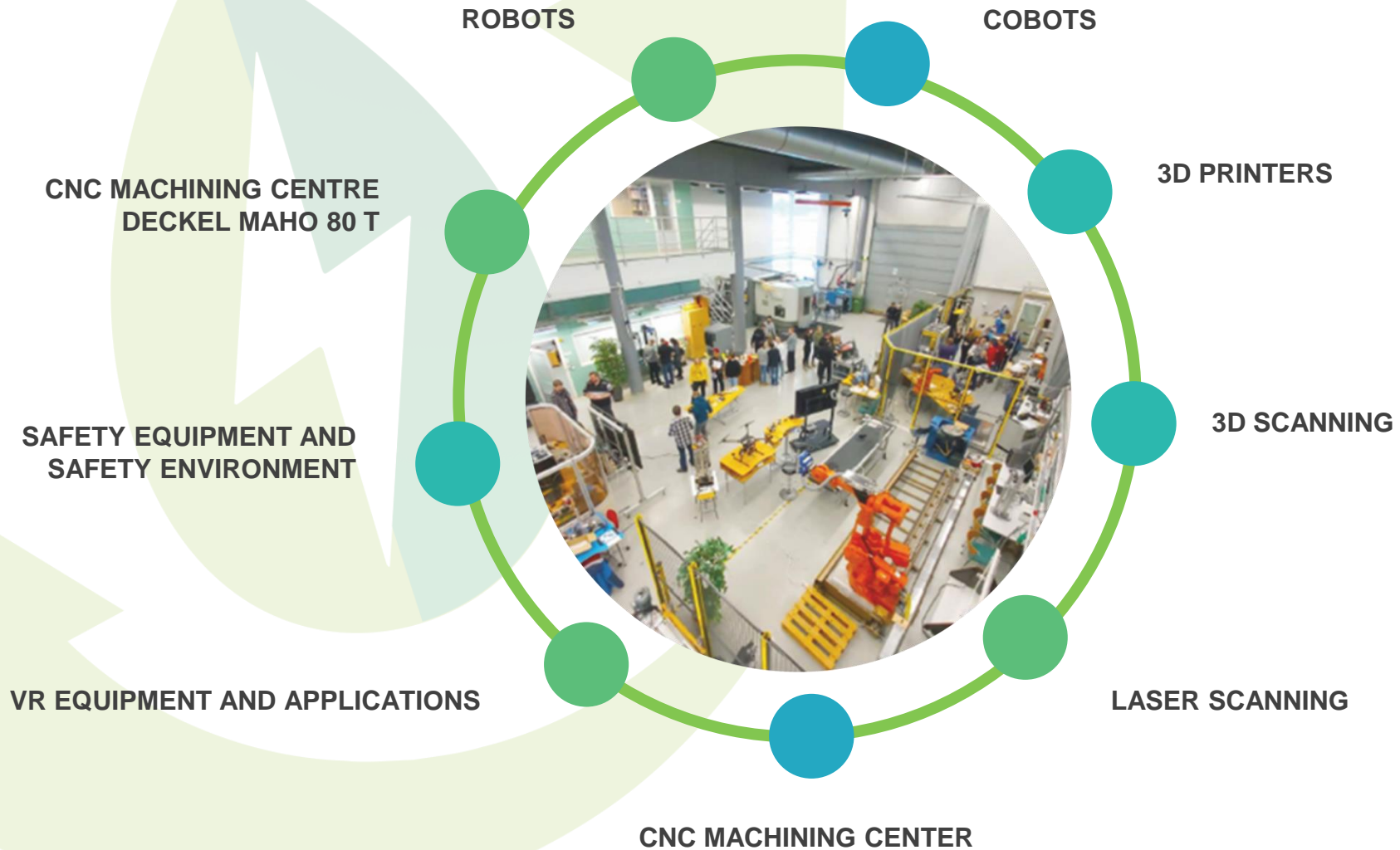


Equipment for research and piloting projects

Rearrangement of current laboratory and office facilities

Potential new facilities

# WP4 Laboratory facilities and current equipment





# **R&D AND EDUCATIONAL STRENGTHS OF THE REGION**

# Centria UAS engineering degree programmes

- Mechanical Engineering
- Industrial Engineering and Management
- Process and Material Engineering, Chemical Engineering
- Information and Communications Technology
- Business Intelligence Technologies
- Environmental Chemistry and Technology



# Engineering, business and other degree programmes

- Technology Management
- Digitalization Management
- International Business Management

Additionally, programs in nursing, social services, communal pedagogy, music pedagogy

Examples of education types available:

- Daytime, multiform, retraining and specialization programmes, open university and online programmes

## Other R&D organizations in the region

- **University of Oulu, Research Unit of Sustainable Chemistry**
  - Research of lithium batteries materials production, new and more environment friendly materials in battery production, materials in inorganic battery chemicals, catalytic materials, wastewater treatment, especially chemical precipitation, adsorption, biomass catalytic conversion
- **VTT Oulu**
- **GTK (Geological Survey of Finland) Kokkola**





## **WHAT CAN BATTERY RECYCLING INNOVATION PARK OFFER YOU?**



# A Fast-Growing Battery Industry Ecosystem At Ylivieska Region

- An opportunity to change the world through new battery and recycling technologies
- Keliber lithium-ion mine nearby in Kaustinen
- Akkuser and Tracegrow battery recycling technology companies
- Johnson Matthey battery precursor production plant near by in Vaasa, operational in 2024
- Boliden Kokkola, Europe's second biggest zinc producer in Kokkola
- Freeport Cobalt, Kokkola, Freeport Cobalt has a comprehensive portfolio of cobalt-based products serving the Chemical, Catalyst, Inorganic Pigment, Powder Metallurgy and Battery Industries
- Umicore Finland cobalt refinery
- Active cobalt mines, planning and prospecting projects in Finland
- Several hundred million worth of tentative investments in battery industry in Finland



# Partner Network



# CONTACT INFORMATION



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**THANK YOU!**