









Aquaponics in Albania

A tool for promoting biological farming and future youth education

Prof. assoc. Dr. Rigers Bakiu and Prof. assoc. Dr. Edmond Hala













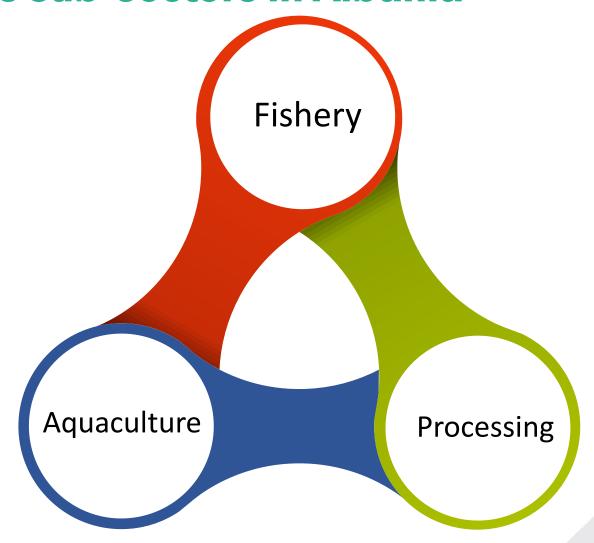


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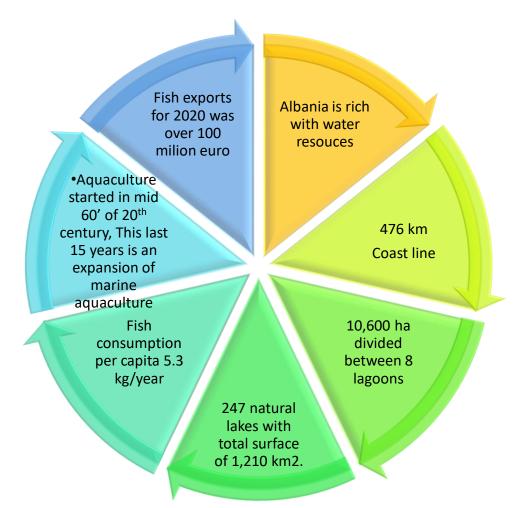
Fisheries sub-sectors in Albania



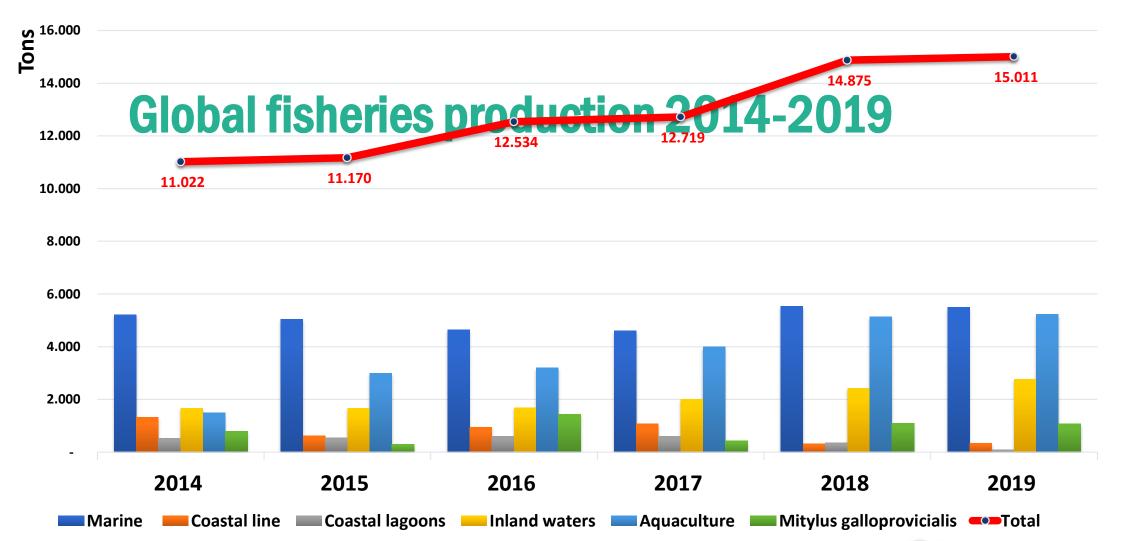




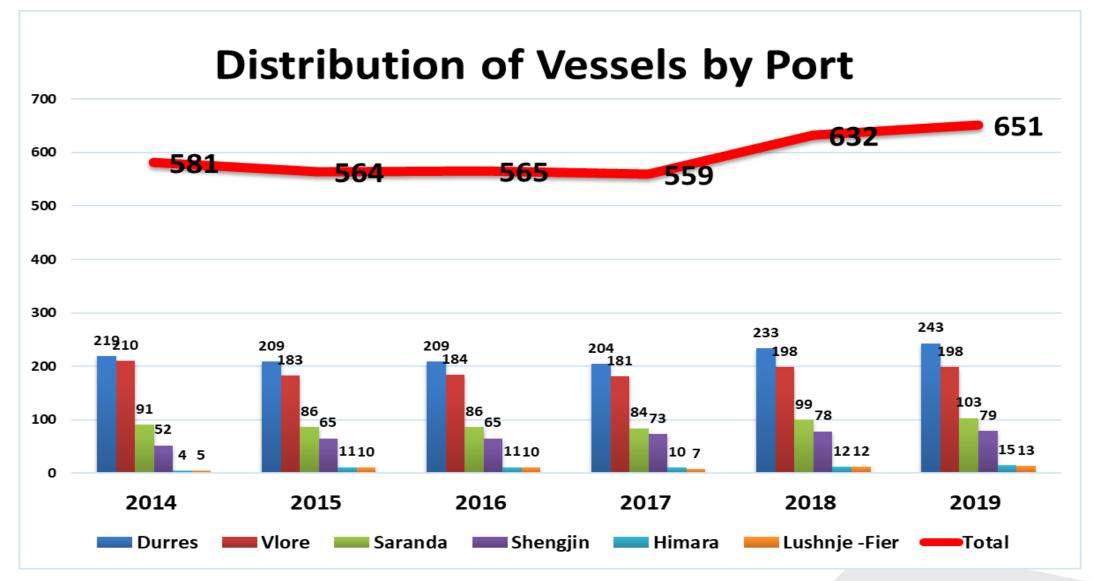
General overview of the fisheries sector





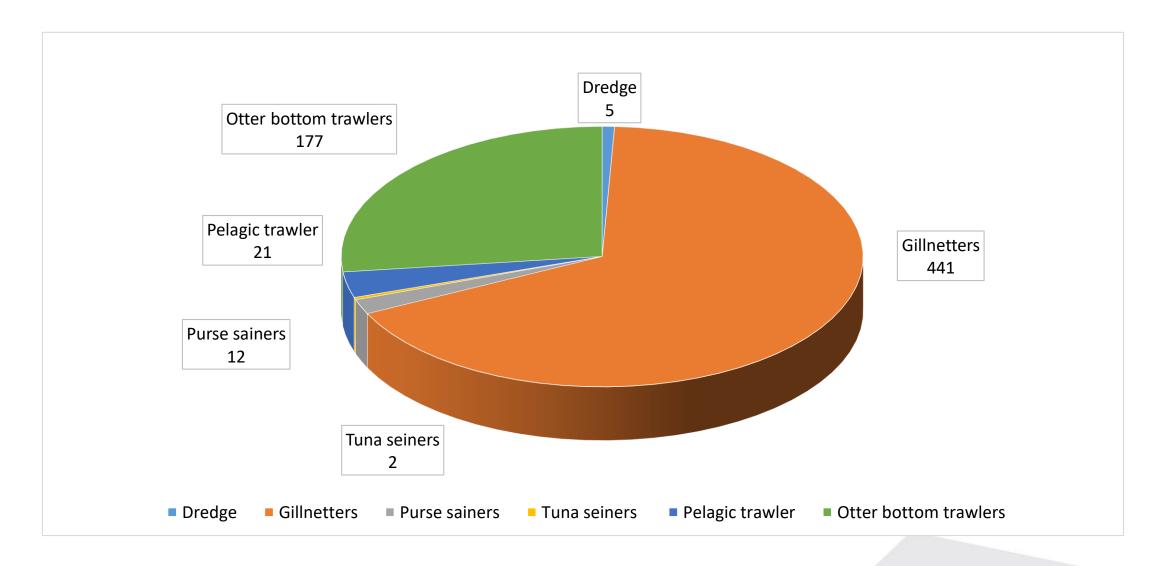






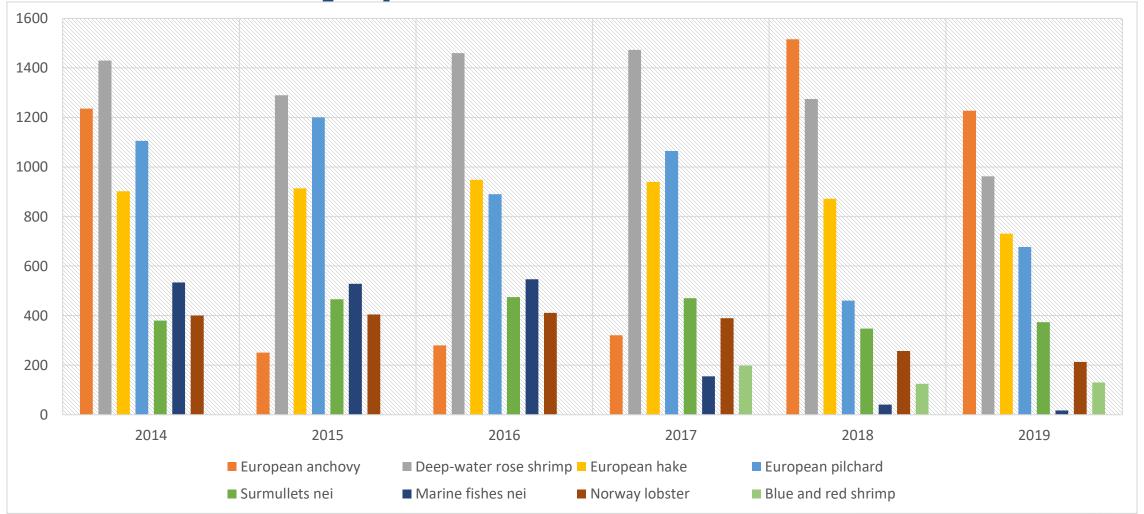






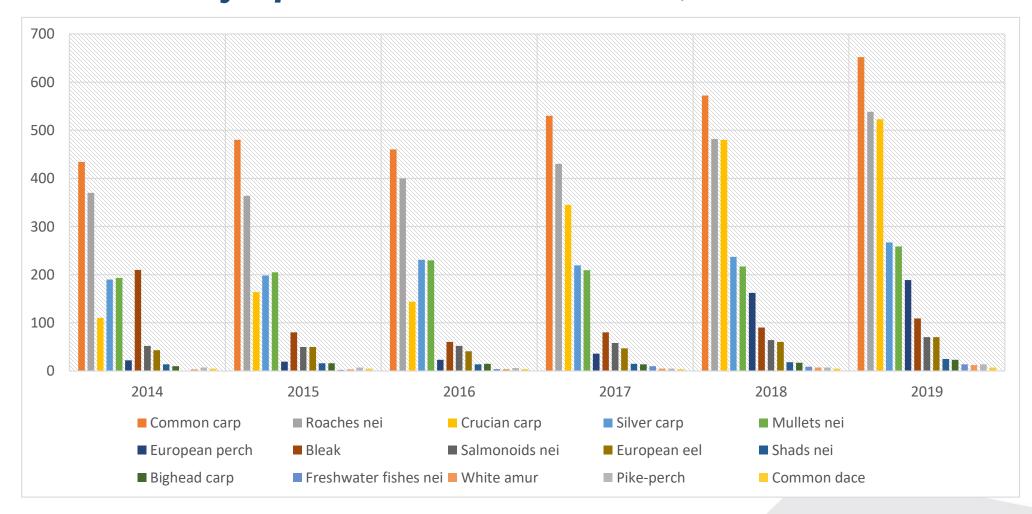


Catches by species from marine fisheries Source: FAO - Fishstat J.

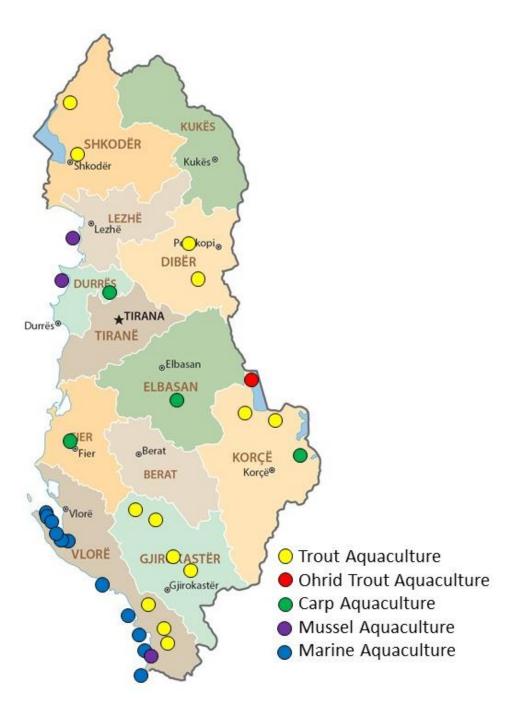




Catches by species in inland water, 2014 - 2019



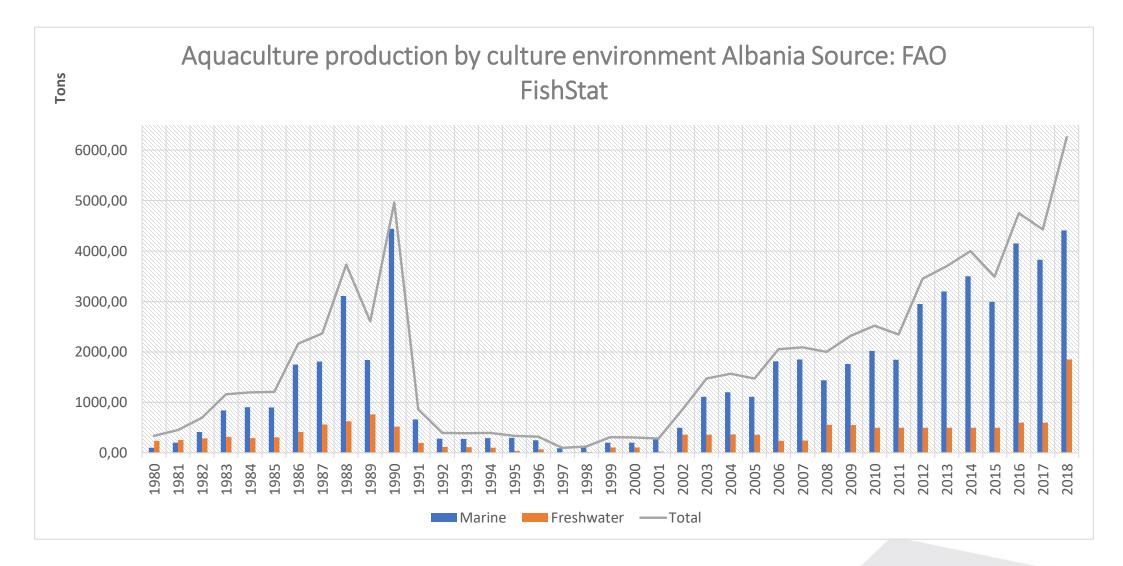




Along the coasts of the shared sea

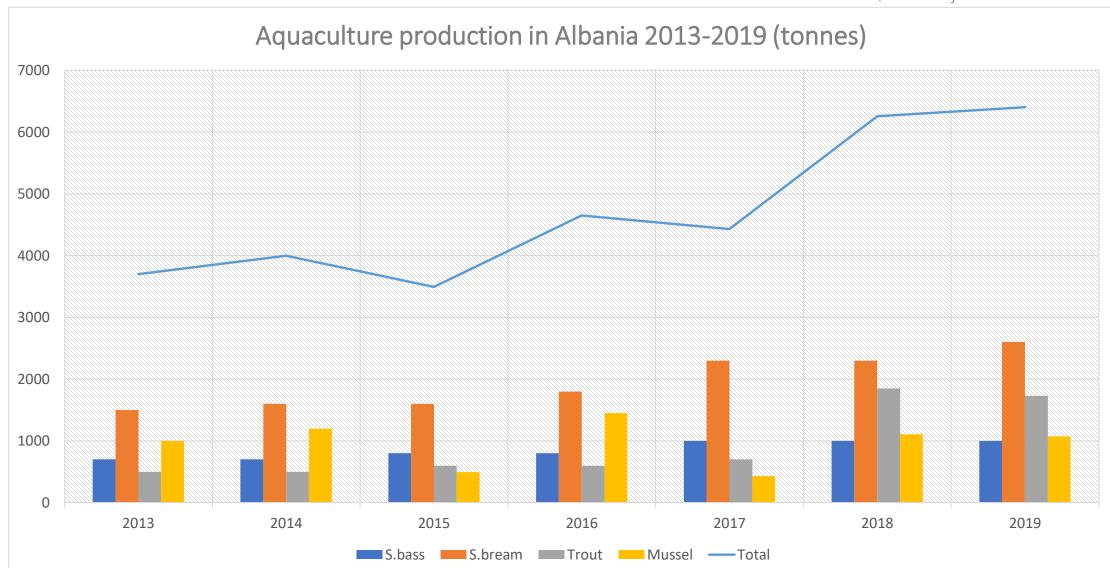
Izola, 11-12 May 2021





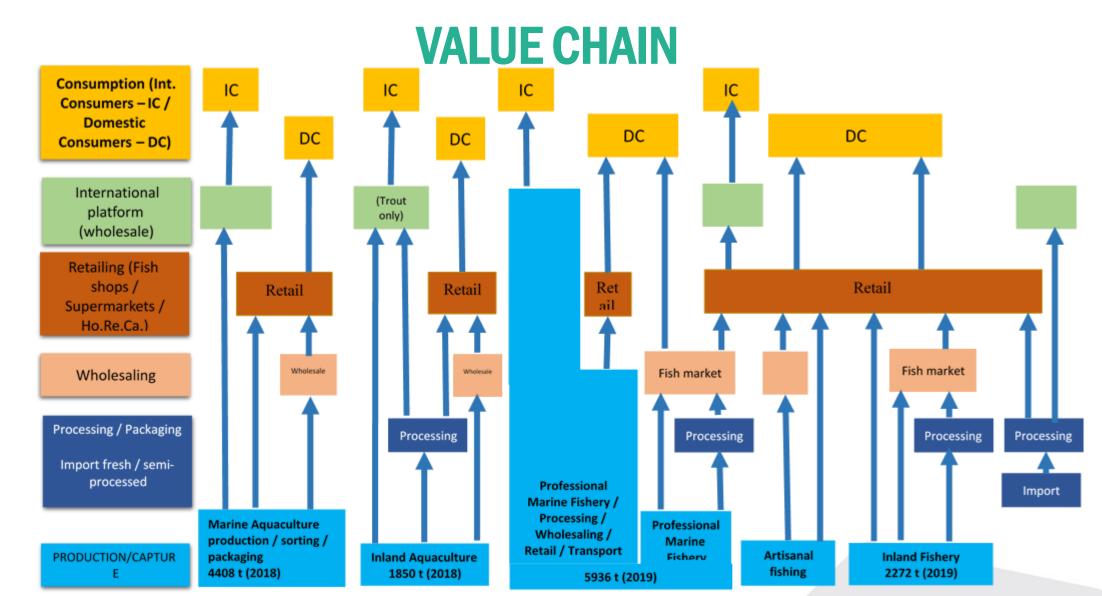














Konservimi Adriatik Aquario Sali peshk KUKËS Vival Shpk SHKODËR Orik Peshk Kukës⊕ Rozafa Poseidon Mare Adriatik Peshkopi⊛ Eurofish DIBËR Ittica San Giovanni DURRËS Sea fish RANA Albamar Koral Fama Drinfish shpk Albafish Fenix I.C. FIER ⊕Berat KORÇË Korçë® Kiara fish BERAT O Turturici all stars Vlora ○ Artik Group shpk. Lakber Sofish VLORE **GJIROKASTËR** Vivimpex @Gjirokastër Occhio vivo Nettuno

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In Albania operate 23 processing plants and 10 aquaculture

33 plants have been approved for export to EU countries

Export of processed fish 104.1 million € in 2020

Annual production growth exceeds 20% per year

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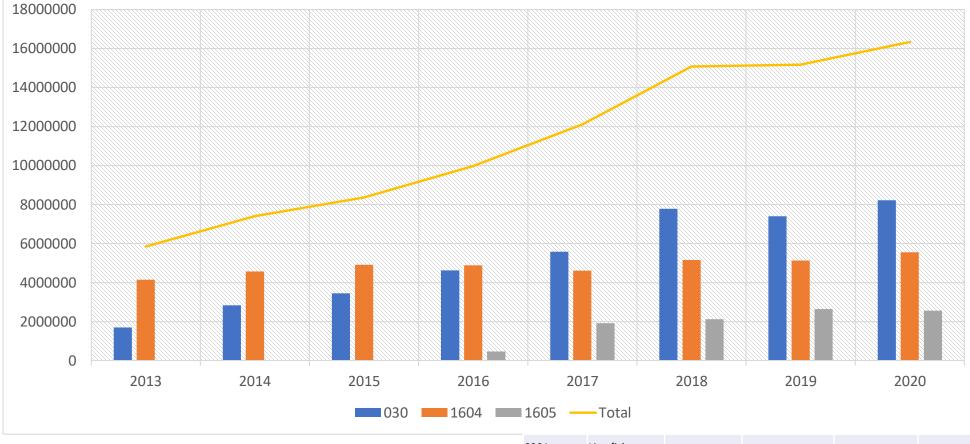
Processing sector



Category	Company	Opening date (year)	Producti on (ton/yea r)	Capacity (ton/yea r)	Capacity saturatio n (%)	No. of employ ees
Big	Euro Fish	1997	1350	2000	68	700
	Koral Fish	1994	700	1500	47	400
	Mare Adriatik	1995	740	1000	74	370
	Nettuno	2014	480	960	50	350
	Poseidon	1996	900	1000	90	400
	Rozafa	1992	3800	15550	24	1300
Medium	Acquario, Sali Peshk	1994	90	500	18	100
	Konservimi Adriatik	1988	320	640	50	250



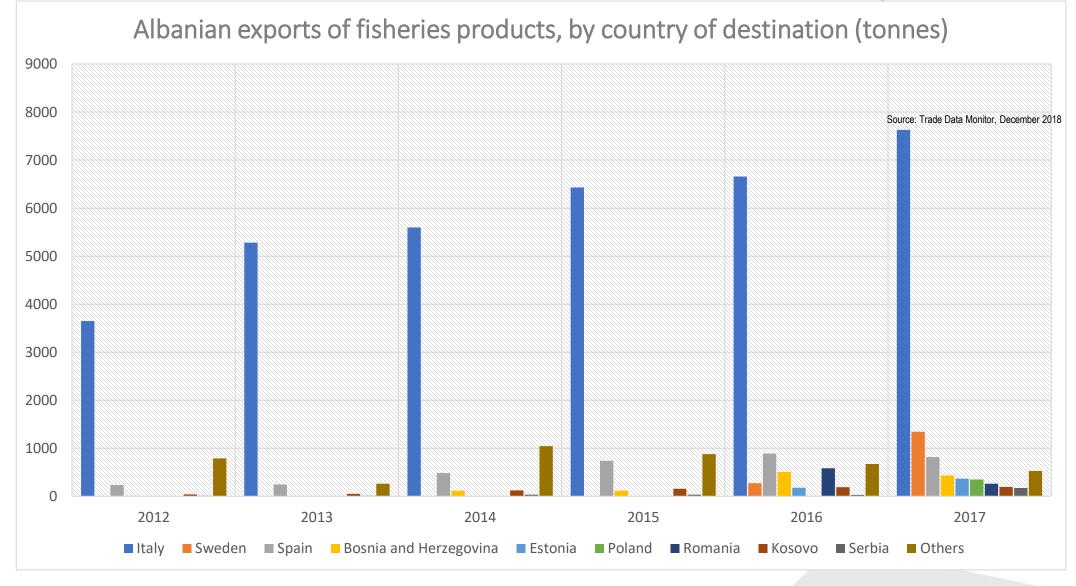
Albania Exports Net Weight Fish Products



301	Live fish							
302	Fresh or cold fis	h						
303	Frozen fish							
304	Fish fillets and other fish meat							
305	Fish, dried, salted, smoked, flours, grains not for consumption							
306	Underwater she	ellfish						
307	Mollusks, whether or not in the shell							
308	Aquatic invertebrates, unlike underwater shellfish and mollusks							
1604	Prepared, canned fish; caviar and its substitutes							
1605	Crustaceans, molluscs, other aquatic invertebrates, prepared or preserved							







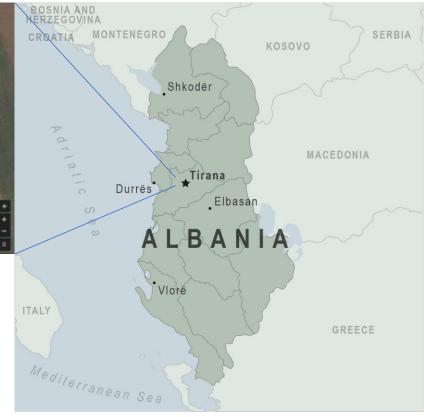


















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First Study about Aquaponic Systems in Albania

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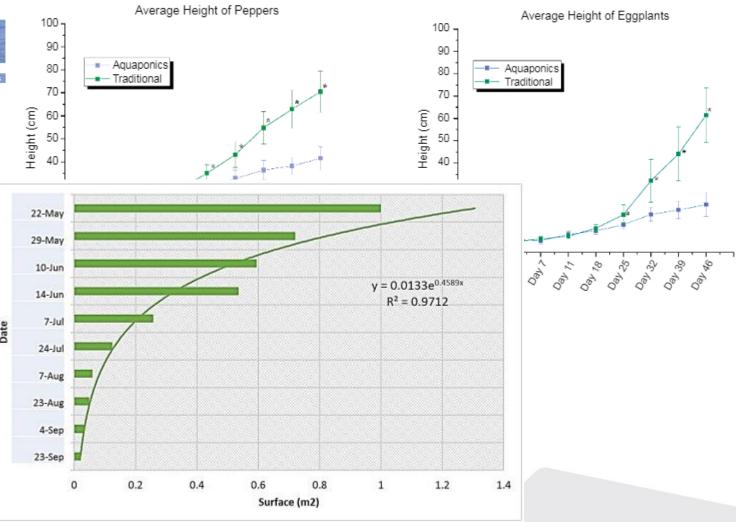
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Abstract

There is an increasing demand from the domestic market of Albania and Eastern Europe countries for pesticide-free produce. Since aquaponic systems can produce fish and vegetables intensively throughout the year outdoors in suitable climates or in environmentally controlled greenhouses and land requirements are minimal, systems can be located near urban markets, thereby reducing transportation costs and providing fresh, high quality fish and plants for people living in Albania and other countries of similar climatic conditions. In order to evaluate the performance of the first aquaponics system in Albania and Balkans, we performed a comparison related to plants average growth between the traditional and aquaponics systems, respectively. We found that there were significant growth differences by height of peppers, eggplants, melons and cucumbers, when growing between aquaponic vs. traditional soil. However, this is one of the first efforts in Europe to provide information that can better inform research and education regarding aquaponics as it matures and possibly evolves into a mainstream form of agriculture.

Keywords

Aquaponics, Carassus auratus, Growth koi carp, Plant height





- Direct selling to consumers never resulted successful
- Selling of herbs and lettuces to restaurants in Tirana and Durres have shown to be successful
- Needs promotion and support by the government as technology for biological production





Promotion as a tool for youth education

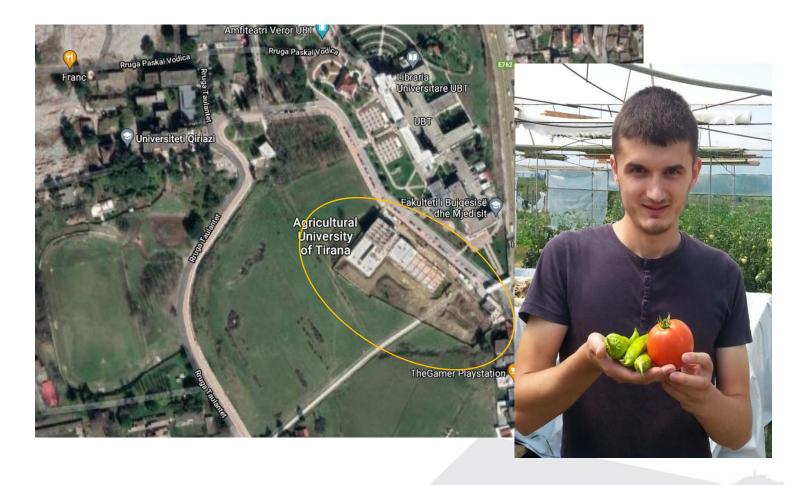
- Half of the Master Thesis students were surprised and aimed to build a similar system with the support of the government;
- Shared knowledge by the supervisor and practical training by the Engineer/owner of the company provided them:
 - Communication skills
 - Managerial skills
 - Technical skills





Promotion as a tool for youth education

- Building of Aquaponic systems will provide knowledge for
 - students of AUT
 - VET learners
- Improve the research on integrated technology





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Thank you!!!

Faleminderit!!!