The Food and Agriculture Organization, it has been estimated about 820 million people suffer from hunger, undernourishment, and malnutrition, which is estimated to increase by $4.5 \%$ in the world. It has been estimated that $45 \%$ of the food wastes are fruits, vegetable roots, and tubers


The current methods of reusing food waste:

- Animal Feed
- Biofuels
- Ethanol Production
- Fertilizer
- anaerobic digestion


The objective of the study - to follow a time horizon to 2029, analysis of the of the food wastes specifically to fruit waste and establish an ignored importance of the use of renewable raw materials for functional food product industry.



Figure 4A. Overall market value (US\$ Mn) in Europe and North America (2014-2029) for products from berry food waste as the source. B. Predicted year over year growth (in \%) in Europe and North
America (2019-2029) for products from berry food waste as the source. 2019 is taken as the base year

## Conclusion

The extraction of BACs from the organic waste will be used in various functional and value added product. The research highlights the scale of food wastage in the North America and Europe to encourage increase recycling and reusability. By studying the waste produced and the composition of the waste, industries can optimize and generate efficient ways of recycling. The increasing food waste can be counteracted with efficient recycling methods and increase the production value of food and the variety in the application of it. The waste management sector will benefit greatly from this research and the industries can increase there profits by focusing on the reusability of the waste.

## References and Acknowledgements

## [1] report, W. h., 1988.

[2] Food and Agriculture Organization of United Nations 2019.
[3] https://www.mercycorps.org.
[4] Christian, M. J. K. a. P.
[5] Agriculture, U. S. D. o.

## Acknowledgements: We thank the financial support by Office of the Undergraduate Research, and the

 Summer Undergraduate Research Fellowship, Embry Riddle Aeronautical University, Daytona Beach, FL 32114