

# Fodder Protein From Agricultural Material

**Ministry of science and technology**

**Agricultural research and food technology directorate**

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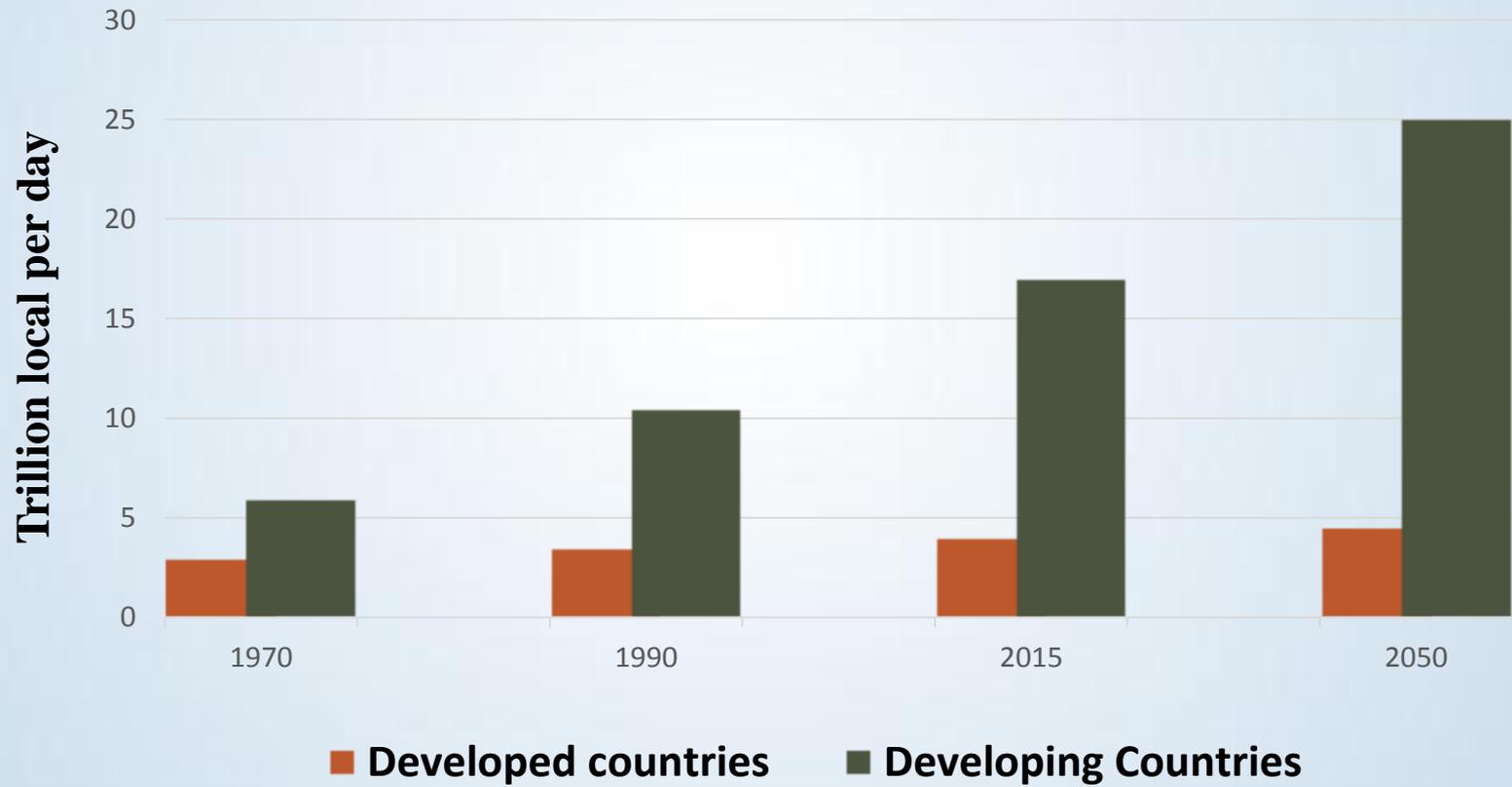
**Dr. Hadi M. Aboud**

# The Problem

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As the world population is expecting to reach 9 billion in 40 years It has been reported that food is needed to be increased up to more than 50% , That is mean the world is facing a serious food shortage problem in the near future and protein considered as the most important component in food.

# Food Demand



# solution

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**Agricultural wastes can be leveraged to produce protein via Biotechnology science.**



# The idea

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Low cost single cell protein (SCP) from a certain agricultural materials by using safe and efficient Microorganisms (patented) .



Providing Protein for poultry breeders.



**Significant affordable budget:  
231 million dollar as an initial budget**

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**The project does not need considerable high budget since, the substrate which is most important component ( a basic component) is already available as a natural product required no cost to create**



## Efficient benefits

- Reducing cost :

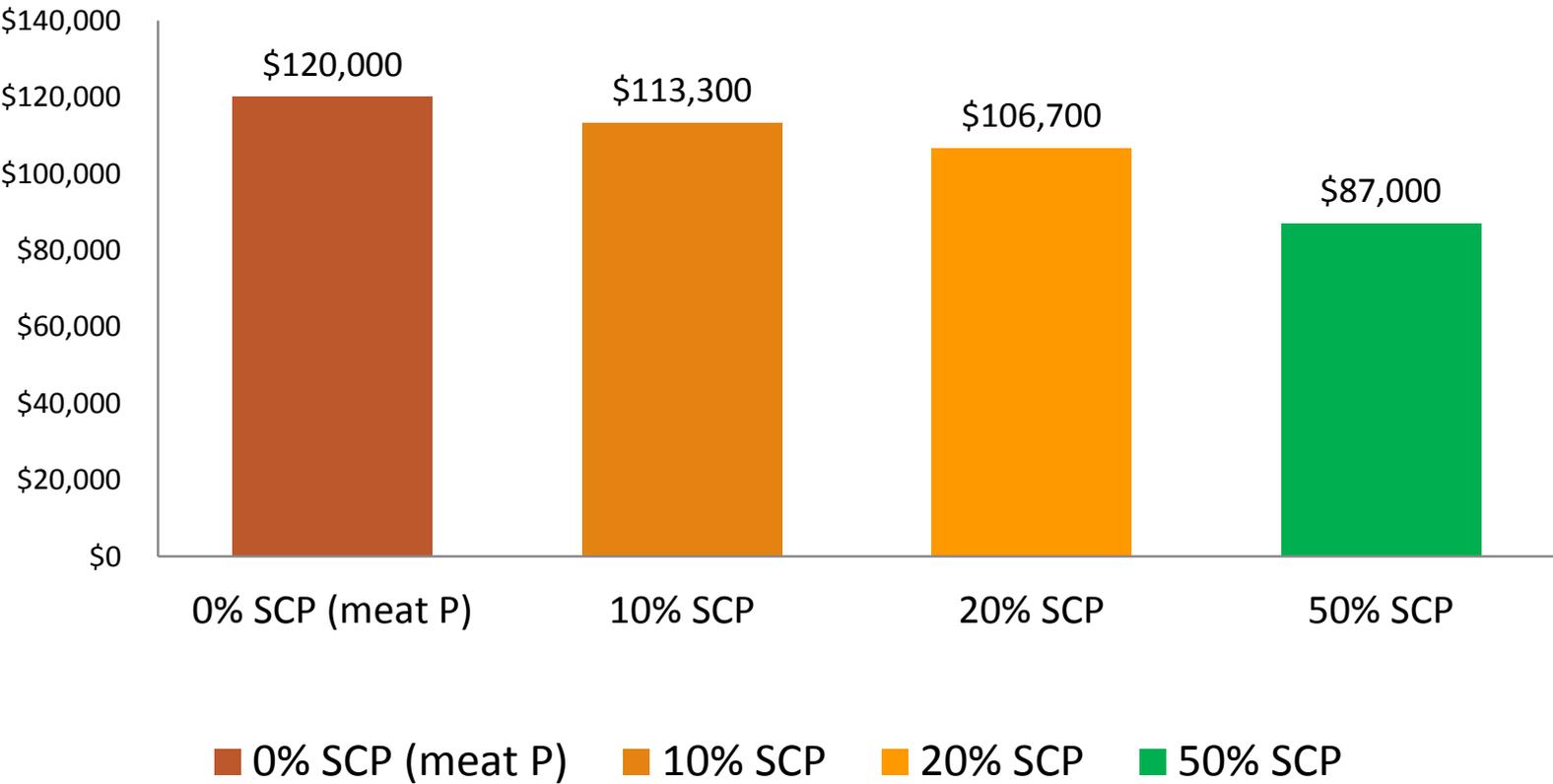
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Our research valuable impact consist of producing low cost product in compare to meat protein which is a considerable component costs 120 million \$ per 100 ton where the cost will be lowered to 106 million per 100 ton as well as using natural, available and organic substrate as a source to SCP.

### Reducing the pollution:

On the other hand, it is an important way to control the growing problem of pollution resulted from dealing with wastes randomly

# The Cost of meat protein Vs SCP per 100 ton



# Practical experiment

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In our directorate we have the same results proved scientifically that using 10% and 20% of SCP instead of meat protein( fish wastes, bowels, blood... etc.,)(unsafe and high cost in compare to organic Materials) depending on our experiments we are encouraged to take the next step which is using 50% of SCP in the next experiment where the cost will be decreased up to .

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Thank you

