

# Dicla Eco Tilapia Systems

Opening the Doors to Urban and Rural

Tilapia Production

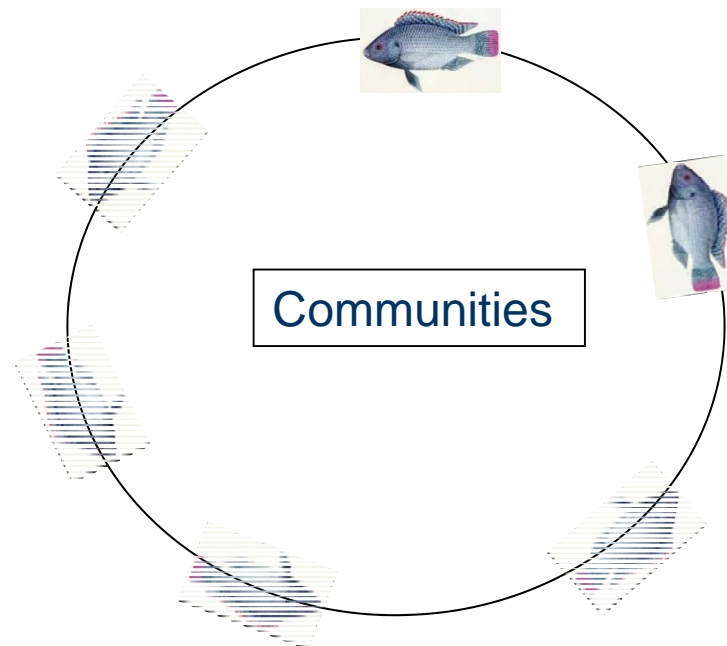
Bringing food production back to communities



Tilapia - the World's most farmed fish

## Tilapia Farming in South Africa

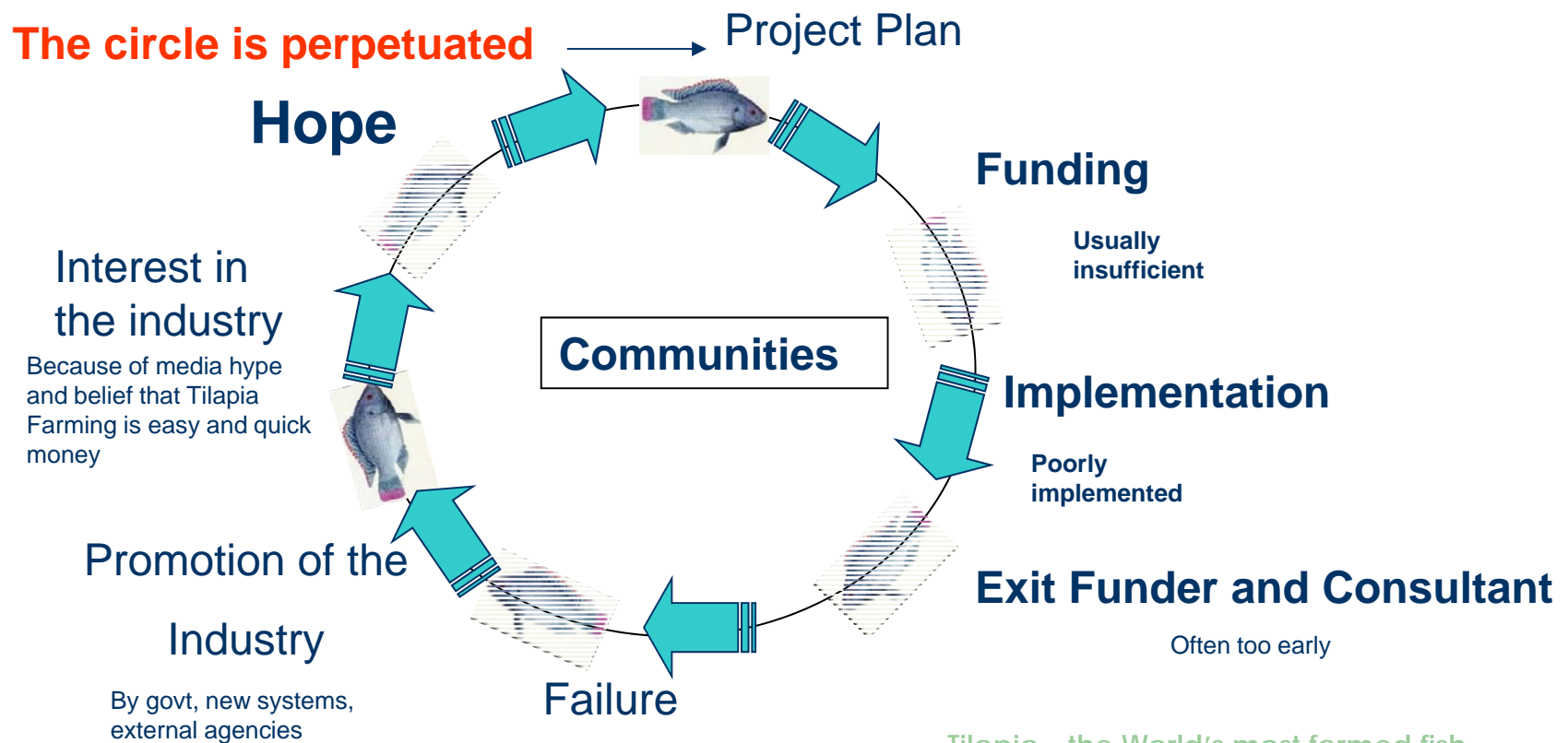
Where is the South African Tilapia industry today?



**Stuck in a circle !**

# Tilapia Farming in South Africa

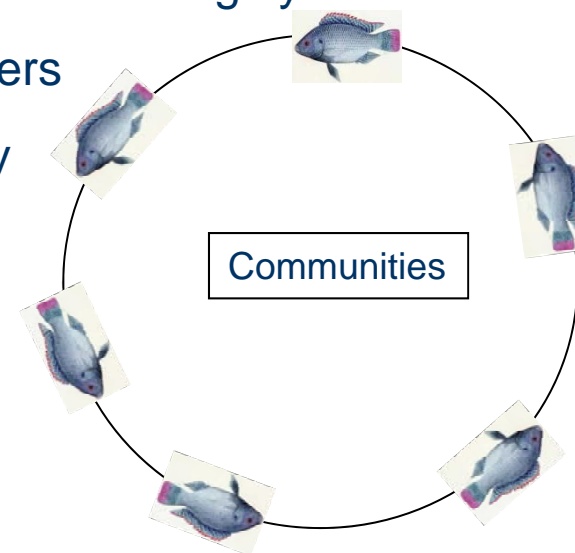
How did the circle form?



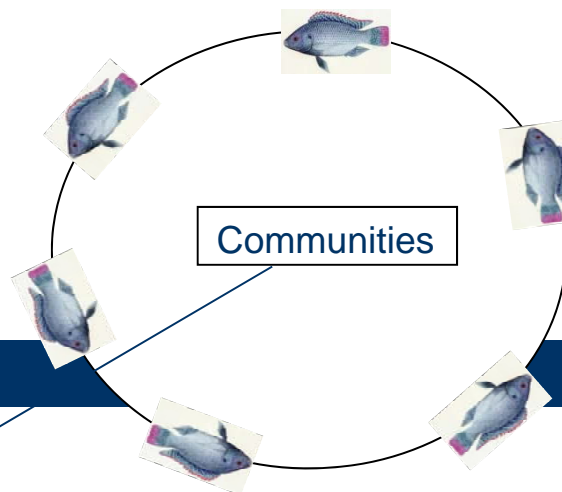
## Why are we stuck in a circle?

- A long history of trying to use models from other countries such as pond farming, tank farming, raceways and cages
- A variable and unsuitable climate for traditional farming systems
- Poor continued commitment by all role players
- No development = No Growth = No Industry

Many of these factors are common to other countries slow development

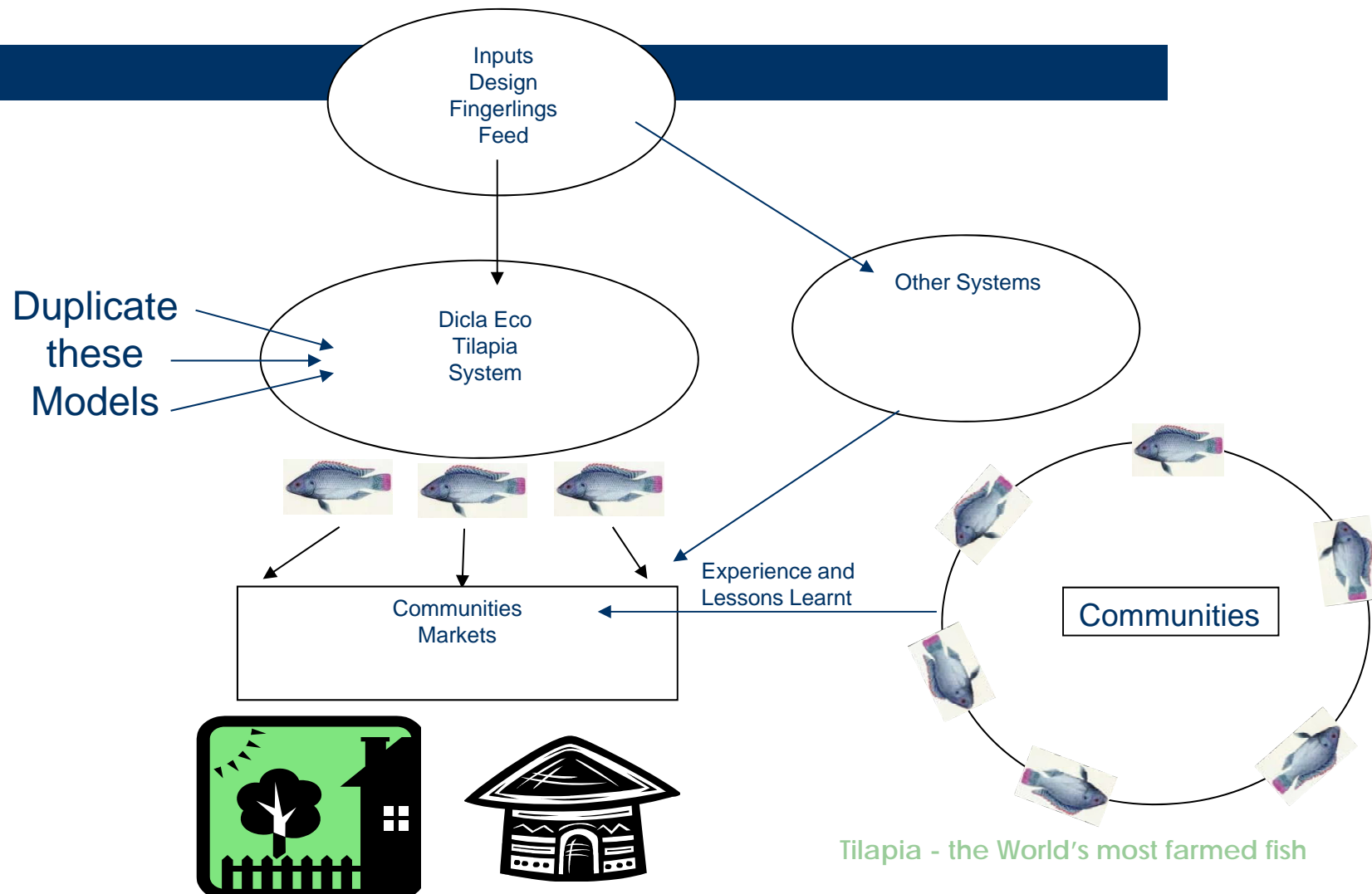


## How do we break out of the circle?



- Use the Dicla Eco Tilapia System and other well designed and engineered systems
- Promote integrated agricultural practices
- Form a strong Tilapia Association and support for the industry
- Set standards for all aspects of the industry, design, fingerling production, feed production, training and skills development
- Develop the Tilapia market and the brand

# What will be achieved?





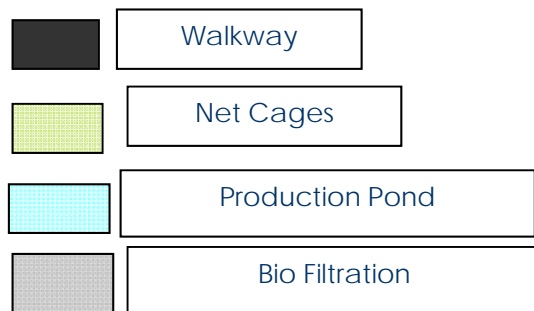
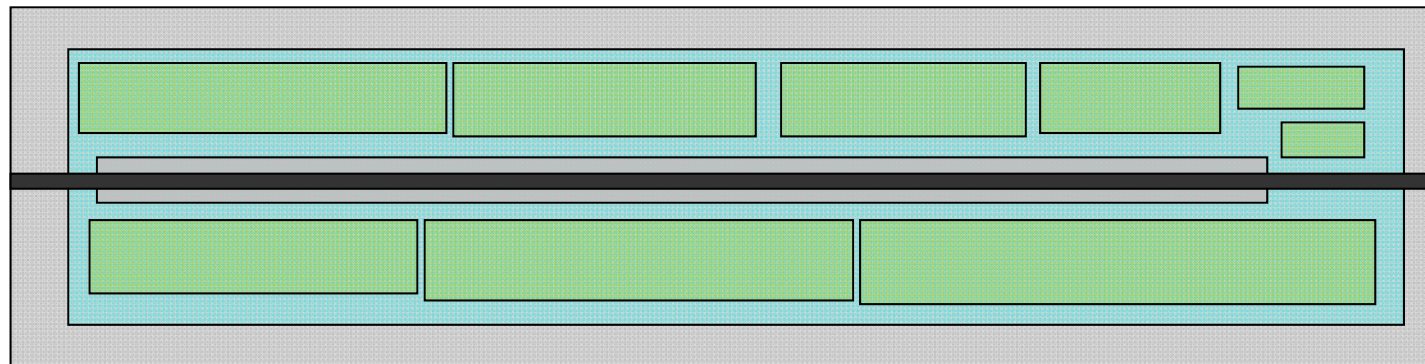
## What is the Dicla Tilapia System?

- Developed over decades of research and experience
- A 50 x 12 meter greenhouse including The Dicla Eco Tilapia System
- Complete with holding and stock management systems, pumps, filtration, aeration and bio filtration
- Supplied as a turnkey project with project design, supply, installation, management, training and mentorship.



Tilapia - the World's most farmed fish

## Dicla Eco Tilapia System Schematic and Layout



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## Production Cycle and annual production figures

The Dicla Eco Tilapia System carries the max Bio Mass after the first Production Cycle, ensuring the maximum use of all resources thereafter



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# Production Table

	Ave Weight	Number of fish per cohort	Bio Mass	Water Required @ Stocking Density M3	Production Days			
<b>Cohort 1 Stocking</b>	20	<b>20,000</b>	400	8.89	21			
Cohort 2	50	<b>20,000</b>	1,000	22.22	21			
Cohort 3	80	<b>20,000</b>	1,600	35.56	21			
Cohort 4	110	<b>20,000</b>	2,200	48.89	21			
Cohort 5	140	<b>20,000</b>	2,800	62.22	21			
Cohort 6	170	<b>20,000</b>	3,400	75.56	21	Production cycle days per cohort	<b>21</b>	Days
Cohort 7	200	<b>20,000</b>	4,000	88.89	21	Number of Cohorts produced per annum	17.38	Cycles
Cohort 8	230	<b>20,000</b>	4,600	102.22	21	Cohort harvest weight	5,200	Kgs
<b>Cohort 9 Harvest</b>	260	<b>20,000</b>	5,200	115.56	21	Annual Production	347,619	Fish
Totals		<b>180,000</b>	25,200	560.00	189	Annual Production	90,381	Kgs



## Gallery



- System complete
- Filled for testing
- Greenhouse structure complete waiting for the plastic covering

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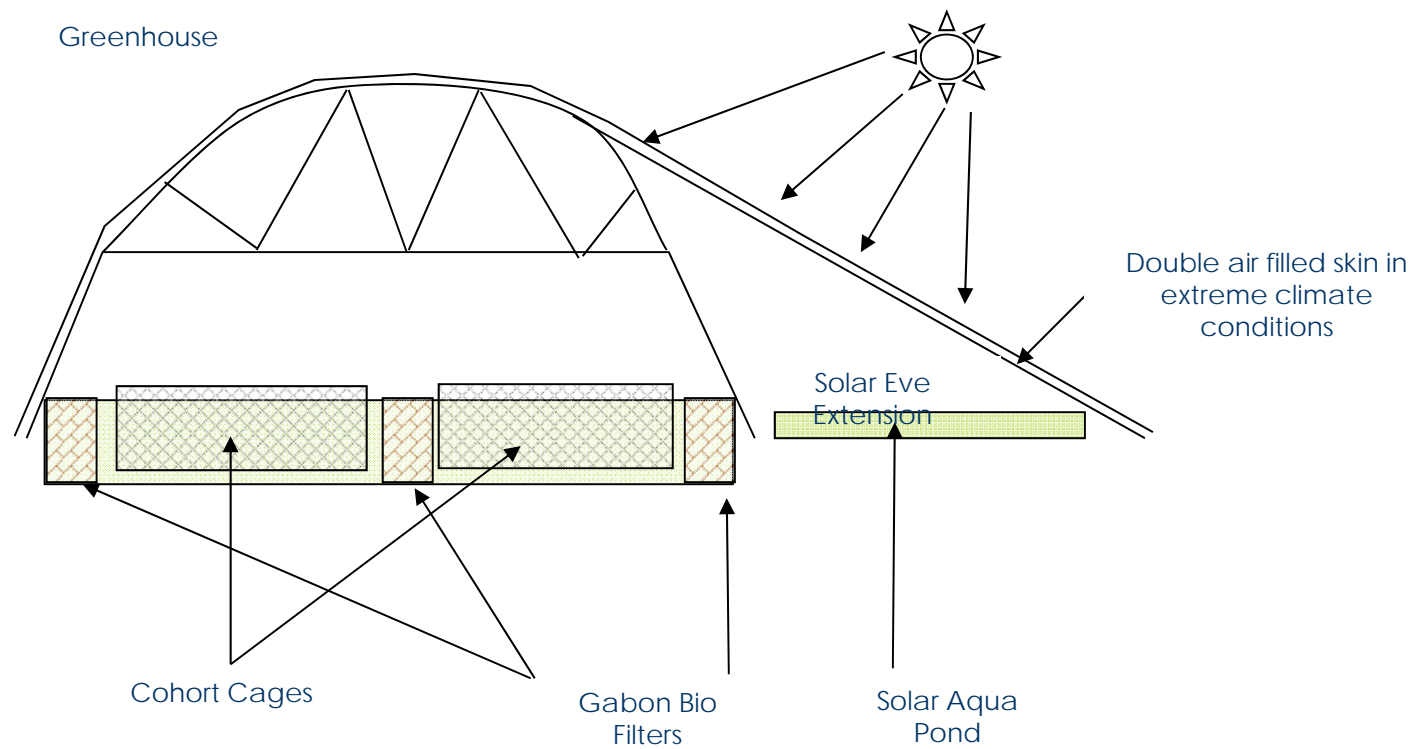
# The Dicla Eco Tilapia System

Build it anywhere !



Tilapia - the World's most farmed fish

# Dicla Eco Tilapia Greenhouse and Layout





A view from the open door  
into the 50 x12 m

Dicla Eco Tilapia System

Gallery



Tilapia - the World's most farmed fish

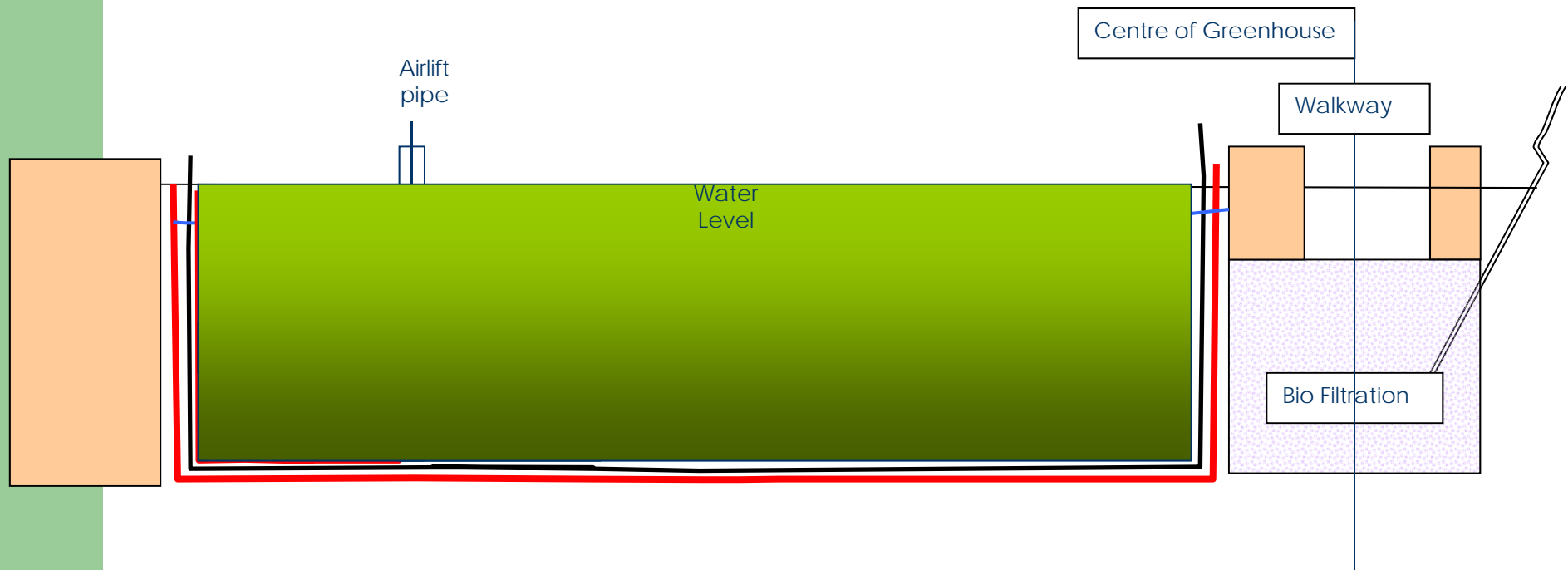
## Gallery



- Nets in
  - Fish stocked
- Water temperatures**
- Winter Ave 20°C
- No other heating**
- Diurnal heat loss 1-2°C
  - Summer 29°C



## Section through Dicla Eco Tilapia System



Dicla Eco - Tilapia A Section through Gabions production pond and Bio Walls

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Thank you for your attention

Buy your Dicla Eco Tilapia here  
Fresh from your local producer to your table



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