



AQUACULTURE LTD

[www.cellaqua.com](http://www.cellaqua.com)

Australian Stock Exchange  
Code: 'CAQ'



*“Land-based Premium Aquaculture Production Specialist”*

**AGM Presentation 28<sup>th</sup> November 2008**

# Strong Shift to Malaysian Based Production

- CAQ's sole focus is now to develop large scale production Joint Ventures with the Malaysian government.
- Low-cost base for production.
- Strong relationships now developed at State and Federal government level.
- Highly credible reputation now established for the company in Malaysia and a strong platform created for future expansion projects.
- Large scale hatchery and grow-out projects under development in State of Terengganu.
- CAQ has now been approached by a number of other Malaysian State Governments.
- Discussions and feasibility now also progressed on a number of large scale Federal projects.

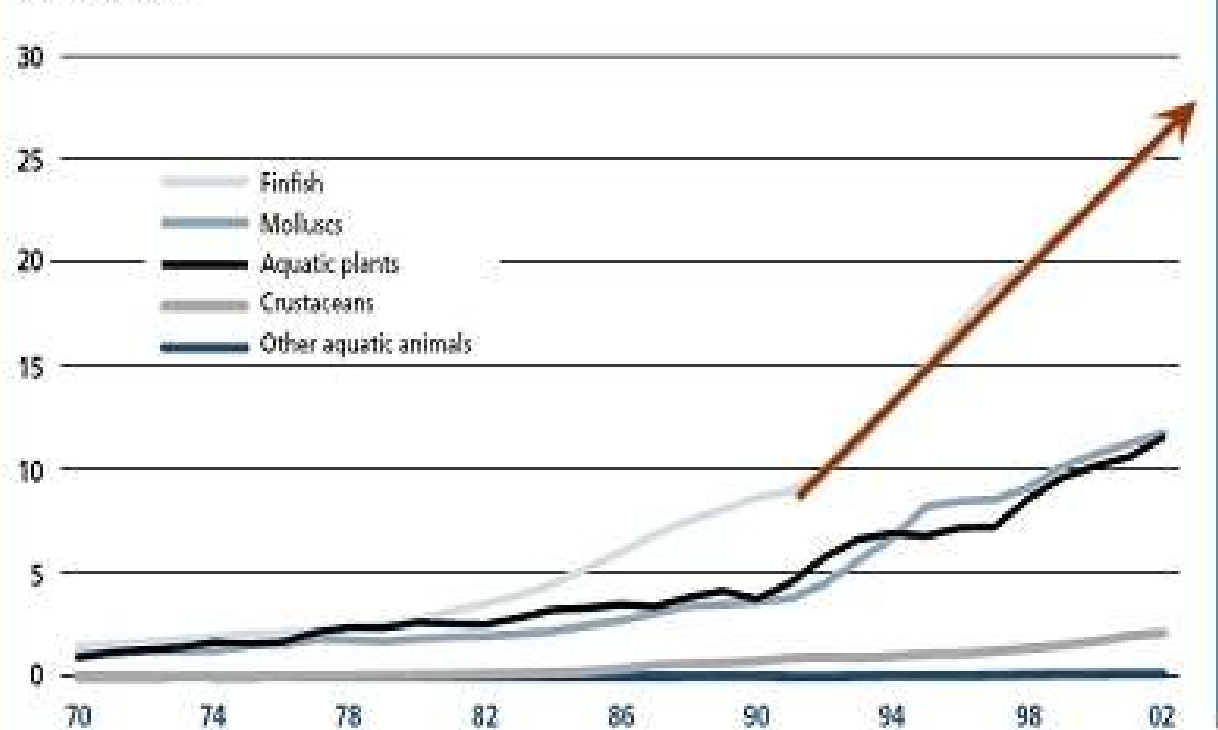


# Global Market Overview

- Increasing world seafood demand.
- Over-fishing - natural stocks in dramatic decline.
- Industry in excess of US\$100 billion pa.
- By 2030 aquaculture will provide over 50%.
- Possibly all natural stocks depleted by 2050.
- Rising fuel costs.
- New production techniques required ASAP.

Trends in world aquaculture production: major species groups

Million tonnes



Source: NOAA (National Oceanic & Atmospheric Administration),  
US Department of Commerce, 2001

# Why Have Others Failed ??

- Issues facing traditional forms of aquaculture.
- Environmental impact of intensive farming activities.
- Complex systems that are often difficult to operate and labour intensive.
- Poor quality and intermittent supply of fingerlings.
- Inferior production/filtration technology.
- Lack of product consistency and quality.
- Disease control difficulties.
- Natural disaster in open water environments.



# Cell's Vertically Integrated Business Model



- Vertically integrated concept, from 'HATCH to DISPATCH'.
- Guarantees low-risk, consistent 'year round' premium quality produce.



Hatch



Grow



Dispatch

# 2,500m<sup>2</sup> Display Facility Now Complete



**Cēlp**  
AQUACULTURE LTD

*The future of  
aquaculture*

# High Specification Display Facility



***Facility Built to high specification to act as  
'Display Facility' for future expansion.***



# Official Opening Ceremony – Feb '08



***Facility officially opened by Australian High Commissioner,  
State Agriculture Minister and State Finance Minister***

# 100 tonne Facility Successfully Commissioned



- 100 tonnes of Australian Barramundi production established.
- Facility currently stocked with over 100,000 Australian Barramundi.
- Golden Snapper trials now commenced.
- Tiger Grouper trials to commence in early 2009.

# First Malaysian Fish Harvests in Jan 2009



***“Significant milestone and proof of concept”***



# Fish Sales = Revenue



Hong Kong



Japan



Singapore

# Cell™ Customised Production Monitoring Systems

TRG Cell Analytical - Windows Internet Explorer

C:\Documents and Settings\Radhaeal\Desktop\CELL-Phase1\Dashboard.html

File Edit View Favorites Tools Help

Home Dashboard Calendar MIS Reports Input >> **DASHBOARD**

Welcome ADMIN, Logout Search

**TRG Cell MONITORING**

WELCOME TO DATA ANALYSIS Helping management on system efficiency and decision making

## CELL Monitoring System - Tank Analysis Dashboard

Location
<b>Nursery Tanks</b>
Tank 1
Tank 2
Tank 3
Tank 4
Tank 5
Tank 6
Tank 7
Tank 8
Tank 9
Tank 10
Tank 11
Tank 12
Tank 13
Tank 14
Tank 15
Tank 16
Tank 17
Tank 18
Tank 19
Tank 20
Tank 21
Tank 22

### Daily Executive Report - January 2008

#### Salinity - Readings

Actual Vs Set Range

Daily Readings

#### % of Fish Occupancy

Daily Occupancy Vs Daily Target

#### End of Month Metrics

Avg. Capacity Rate

78.1%

Average Weight

90.0%

Stocking Density

# Cell™ Customised Production Monitoring Systems

TRG Cell Analytical - Windows Internet Explorer

C:\Documents and Settings\Robbawel\Desktop\MyDesktop\CELL System\CELL-Phase1\index.html

TRG Cell Analytical

Welcome ADMIN, Logout |  Search

**TRG CELL MONITORING**

Home | Dashboard | Calendar | MIS Reports | Input

### Daily Analysis



- > Nursery
- > Cell
- > Barge
- > Daily Input

Scenario | Real Data

### Direct Login

Login:

### Dashboard

SOURCE DATA MONITORING



Proceed

TANK



Proceed

OH



Proceed

PHASE



Proceed

Module				
Parameter - Ammonia				
Day	from	to	Reading	
1	0	2	1.2	

Tank				
Parameter - pH				
Day	from	to	Reading	
1	7.6	8.2	8	

### Recent Updates

- New Tanks Added
- Discussions on increased productivity due to new tank configuration.
- Revenue target reached.
- New batch of Fingerlings coming in.

start | My Computer | 100%

# Cell™ Customised Production Monitoring Systems



# Cell™ Customised Production Monitoring Systems

TRG Cell Analytical - Windows Internet Explorer  
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TRG Cell Analytical

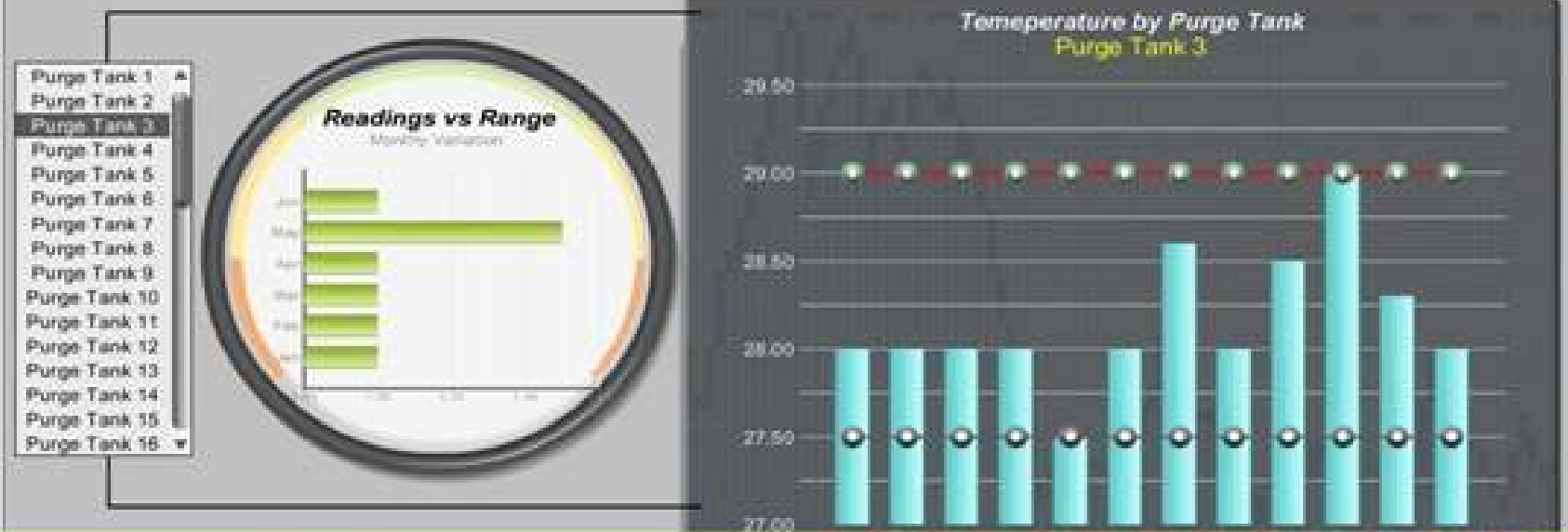


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**WELCOME** 16 DATA ANALYSES  
Helping management on system efficiency and decision making

- Home
- Dashboard
- Calendar
- MIS Reports
- Input
- >> Purge Parameter Analysis**

## CELL Monitoring System - Purge Tank Analysis



# Malaysian State & Federal Government Support



# Cell Aqua's Strategic Partnerships

## *James Cook University*

(Queensland, Australia)

- Research & Development Partnership



## *University Malaysia Terengganu*

- Research & Development Partnership
- Recruitment & Training
- Phd training programs

## *Malaysian Federal Marine Research Centre*

- Research & Development Partnership
- New Species Commercialisation



# Multi-Species Hatchery Development – Stage 1

## **Hatchery 1 - Malaysian Federal Marine Centre**

- The first 'multi-species' hatchery is a joint project with Malaysian Federal Marine Research Centre.
- Will be first commercial 'high-value' multi-species hatchery in Malaysia.
- Will significantly decrease fingerling and production costs in current & future production facilities.
- Joint new species development programs.
- Development of recruitment and training centre.



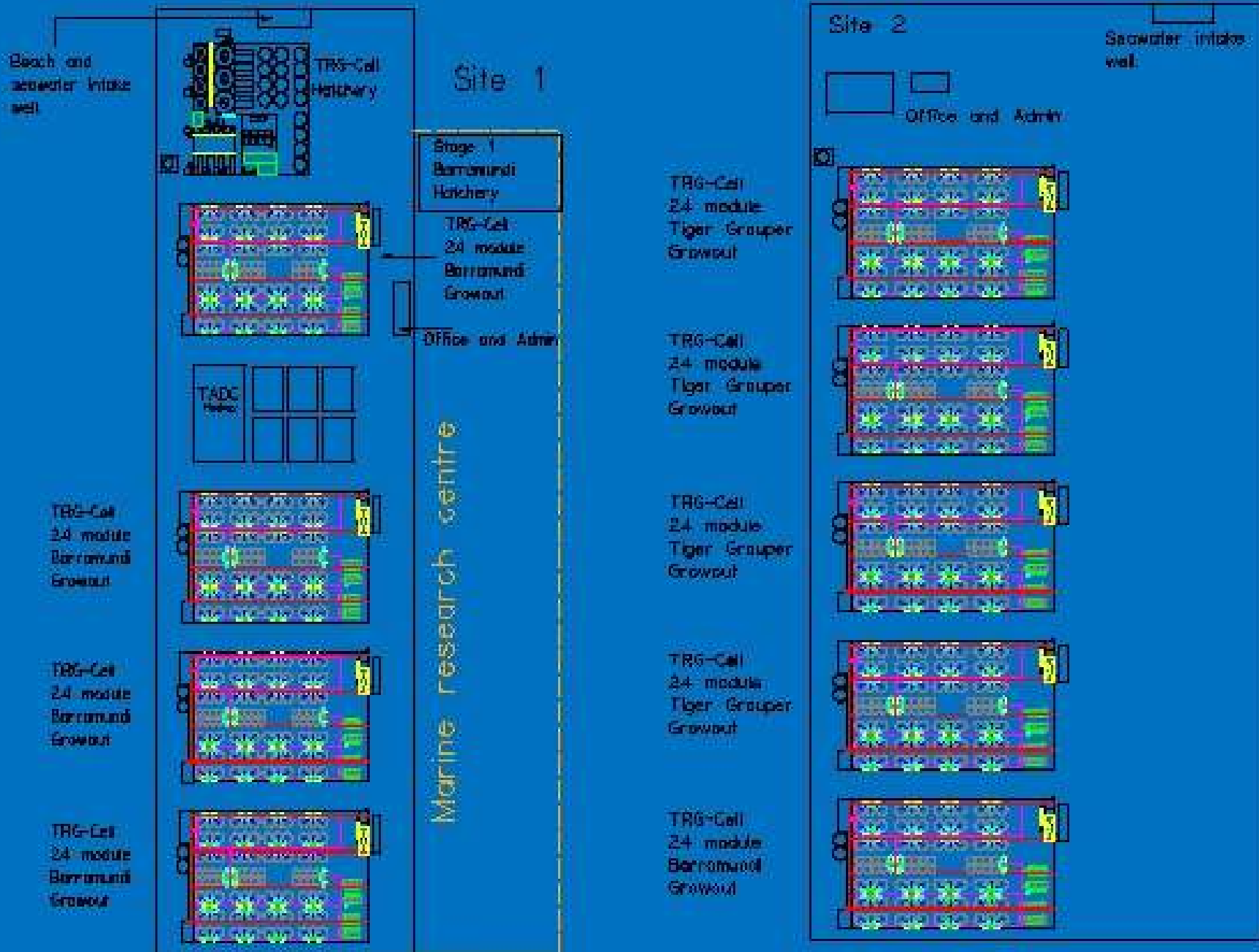
# Terengganu State Expansion Plans



- Funding now being sought from Malaysian Ministry of Finance for major expansion project.
- Premium multi-species production.
- Development includes of one of South East Asia's largest Multi-Species hatchery's.
- Site has been allocated.
- All feasibility works complete.
- Funding applications lodged.



# TRG Cell Expansion Project Besut, Terengganu



# Multi-Species Hatchery Development – Stage 2

## *Hatchery 2 -*

### *JV with Terengganu State Government*

- Will be one of largest commercial multi-species hatcheries in South East Asia.
- High Value – Multi Species development.
- Site works commenced.
- Further development awaiting funding from Ministry of Finance.
- Provides 'engine room' for major future expansion.



# Advancement to High Value Marine Species



*Marine species*

# Further Malaysian Opportunity

- CAQ has now been approached by a number of other Malaysian State Governments to replicate Terengganu project.
- Discussions and feasibility now also progressed on a number of large scale Federal projects.
- Fish marketing and distribution centre under development.
- Down stream processing and value adding options under assessment.



# Bright Future Ahead



- Lengthy and onerous foundation work in Malaysia now done.
- Company well positioned for significant expansion.
- Broker Support. Increasing investor interest.
- Accelerated decline of wild-caught fish stocks = Significant opportunity for CAQ.
- Long term upward price pressure on premium seafood, regardless of economic environment.
- CAQ developing an effectively 'Recession Proof' business.