



Feed production, pond management, water pumping, aeration, pharmaceuticals, harvesting, sludge removal, transport, fish processing, chilling, freezing, testing, export, by-products .....

## Catfish Farmers in Vietnam – Sediment Removal Solution Required

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Currently rudimentary pumping equipment has poor contact with the pond bottom



**Result** – much sediment remains in the pond while high water content of pumped sediment prevents proper management/ utilisation.

- Energy wasted
- Water quality and growth of fish suffer
- Nutrient rich sediment lost
- Farm fails certification criteria

Images: Lam Phan Thanh, Can Tho University/  
Douglas Waley, Kasetsart University



Water quality demands intermittent hiring of divers at an ever increasing price for effective sediment removal.

### Distribution of production

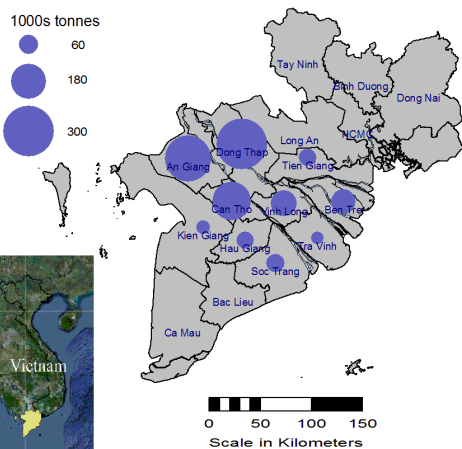


Image: Richard Newton, University of Stirling

### Pangasius production in Vietnam

5,500 hectares of ponds produced 1.2 million MT of pangasius, over \$1.8 billion in exports, in 2011.

Currently around 175€ per hectare per crop spent on sediment pumping, from total production costs of around 250,000€.

Most ponds are up to 1 hectare and between 2.5 and 5 metres deep.

Each enterprise may have 1 or more than 50 ponds.

8,000m<sup>3</sup> of sediment collects per hectare per growth cycle of 8-10 months. Currently sediment is pumped out up to once a month.

Something to offer? Something to gain?

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