The performance of NZ exporters: Some firm-level evidence

Richard Fabling

Motu Public Policy Seminar, December 2007



Theory

- NZ data & results
- Future work

Motivation

Motivation

Concerns about NZ export performance:

- "Exports have grown little in volume or value over the last 30 years, and our performance is well behind that of similar OECD countries"
- "Export Year 2007 is part of the Government's wider Economic Transformation Agenda to forge an export-led, high wage economy"

"Exporting helps businesses:

- Expand their customer base, potentially boosting sales, productivity and profits
- Achieve the scale needed to attract investment and reach their full potential
- Pick up new skills and expertise, and stay ahead of market trends
- Become internationally competitive, helping to protect their domestic business from imported competitors
- Create a long-term plan for their future."

www.exportyear.govt.nz

ESERVE

OF NEW ZEALAND



Implications of model

- Wide variety of firm performance (assumed)
- Self-selection into exporting
- Persistence in exporting
- Exporters achieve greater scale
- Resource reallocation towards exporters raises aggregate productivity
- Explains relationship between trade & growth
- Other effects on firms from exporting?
 - EG, higher productivity growth through learning-fromexporting – not assumed in model
 - Empirical literature strong on self-selection hypothesis, mixed (weak) evidence on learning

Focus of export policy

Reduce threshold for entry into exporting

- Cover sunk costs (eg, NZTE Market Development Grants, 541 recipients, \$36.3m)
- Reduce trade barriers (eg, MFAT Policy Advice & Representation: International + Other Countries \$220.2m)
- Help firms raise productivity => selfselect into exporting
 - Eg, NZTE Capability Building Grants (366 recipients, \$3.2m)
 - R&D tax credit (\$158m)
- Many economies do these things which of them work?

How NZ research helps

Ex-ante

- How does the economy work?
- Is there a problem that policy could solve?

Ex-post

- Did this policy work?
- How could it be improved?
- This work in the nature of the former approach, but evaluations are underway!
- First, to be useful, researchers need data...

The Longitudinal Business Database

- Longitudinal Business Frame (LBF)
- GST/Business Activity Indicator (BAI)
- Financial accounts (IR10)
- Company tax returns (IR4)
- Linked Employer-Employee Dataset (LEED) aggregates
- Customs merchandise trade
- Government programme lists
- Sample surveys (AES, BOS, Innovation, R&D, BPS, BFS)

Benefits of the LBD

Coverage

 Includes roughly all "economically significant" firms in NZ (~700K private-for-profit firms)

Panel dimension

- 7yrs (2000-6), ~450K active firms in any year, ~50K entrants/exits
- More performance metrics
 - Exporting by good-destination; profitability; productivity
- Huge potential for firm-level research
- Some industry restrictions in work presented today

Papers this presentation draws on

- Fabling & Grimes (2007a) "Do exporters cut the hedge? Who hedges, when & why", NZAE'07
- Fabling & Grimes (2007b) "Over the hedge or under it? Exporters' Optimal and Selective Hedging Choices", NZESG presentation/paper in prep.
- Fabling et al. (2007) "Some rise by sin, & some by virtue fall: Firm dynamics, market structure & performance", NZAE'07
- Fabling & Sanderson (2007) "Peter Piper picked a peck of pickled peppers & packed them off to Portugal: Firm-level patterns in merchandise trade", NZAE'07
- Greenaway & Kneller (2007) "Firm heterogeneity, exporting and foreign direct investment", Econ J, v117, pp134-161
- International Study Group on Exports & Productivity (2007) "Exports & productivity: Comparable evidence for 14 countries", in prep.

Manufacturing value-added (2005)



Where does expansion come from?









It's a tough world out there

Survival function for firm export spells



Currency risk a cause of attrition?



Theory

Optimal hedging (imperfect markets)

Eg, financial distress costs, underinvestment costs, scale, managerial risk aversion/ governance, convex tax schedules

Selective hedging

 Sensible if exporter has information comparative advantage

Estimation

- Exporters to Australia
- Monthly Jun 2000-Mar 2006
- Test both theories simultaneously
- Two stage selection model only observe hedging behaviour for firms with foreign currency exports

Share of AUD exporters hedging



Preliminary results



Future work - international

LBD has huge potential. Planned work...

- Determinants of export entry & exit at both the firm and the relationship level
- Impacts on firm performance
- Extension to other forms of international engagement (eg, foreign ownership)
 - Identification of service exporters
 - BOS'07 currently in the field (April 08)
- Trade & local labour market characteristics
- Evaluation (first study next week)
- Other differences in export business practices (BOS)