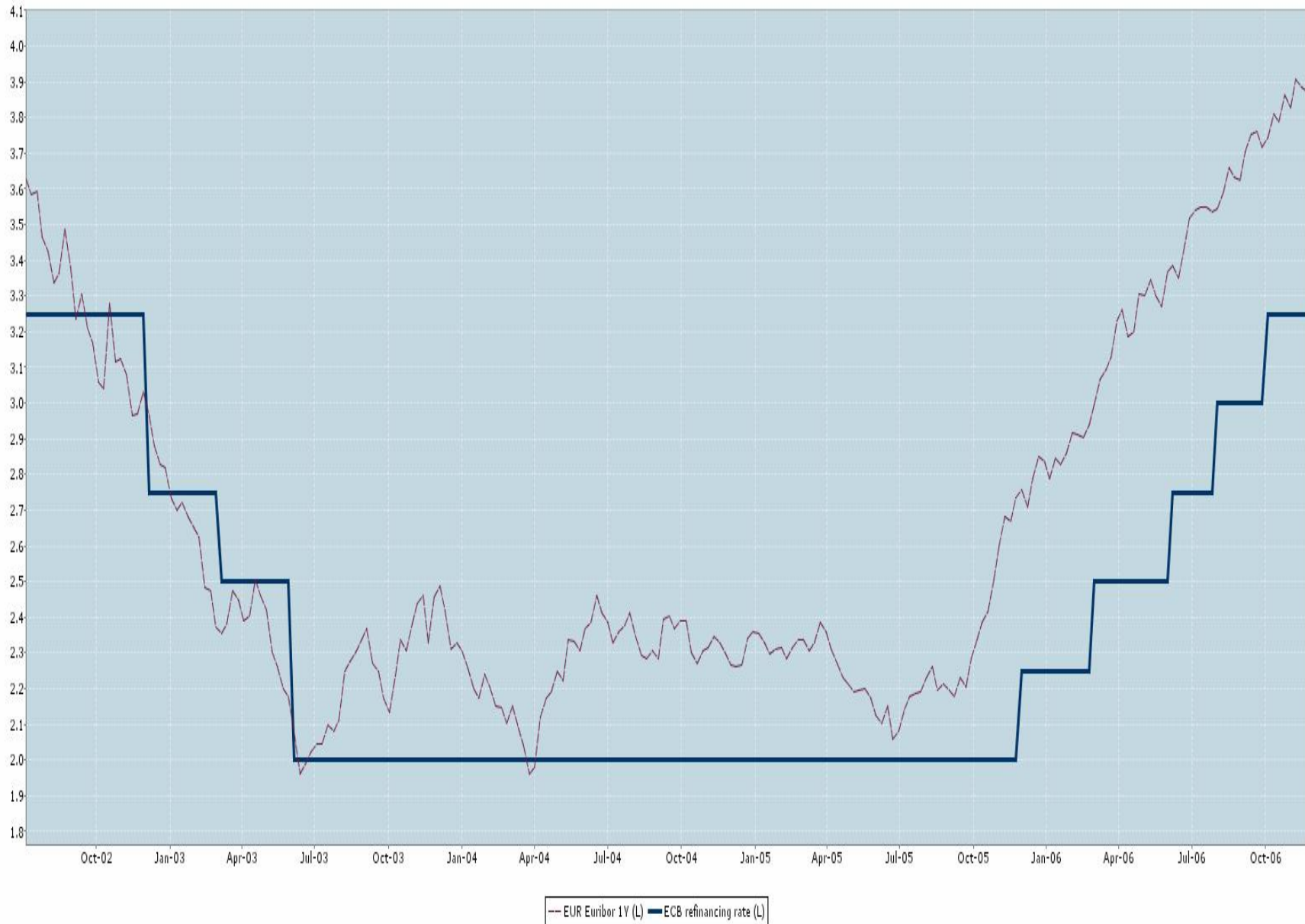

Eurosystem Money Markets Survey 2006

*Jean-Michel MEYER, HSBC France
Mark DEARLOVE, Barclays Capital
November 23rd, 2006*



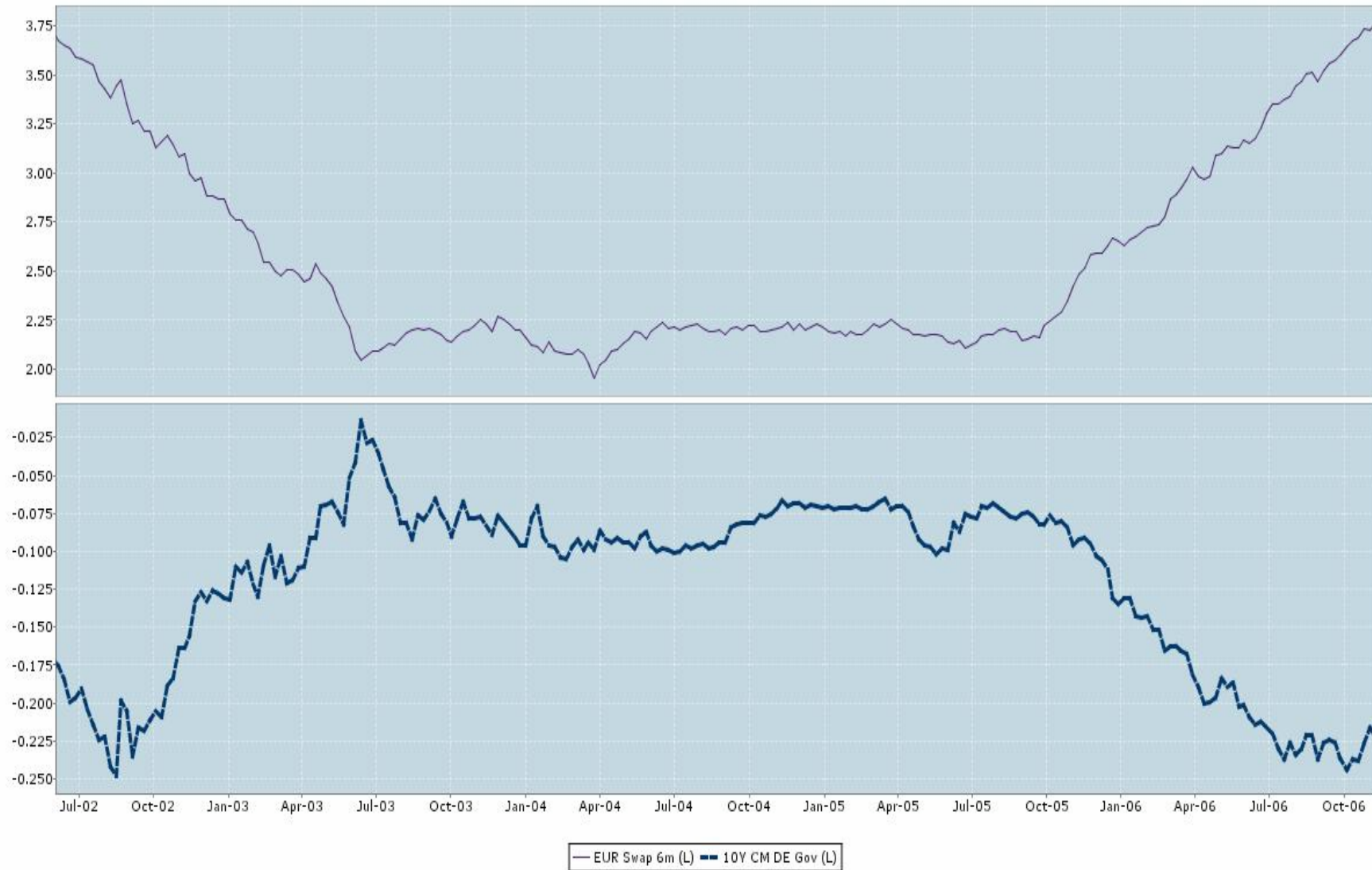
12mth Euribor fixing/ ECB minimum bid rate.

4 Jul 02 to 23 Nov 08

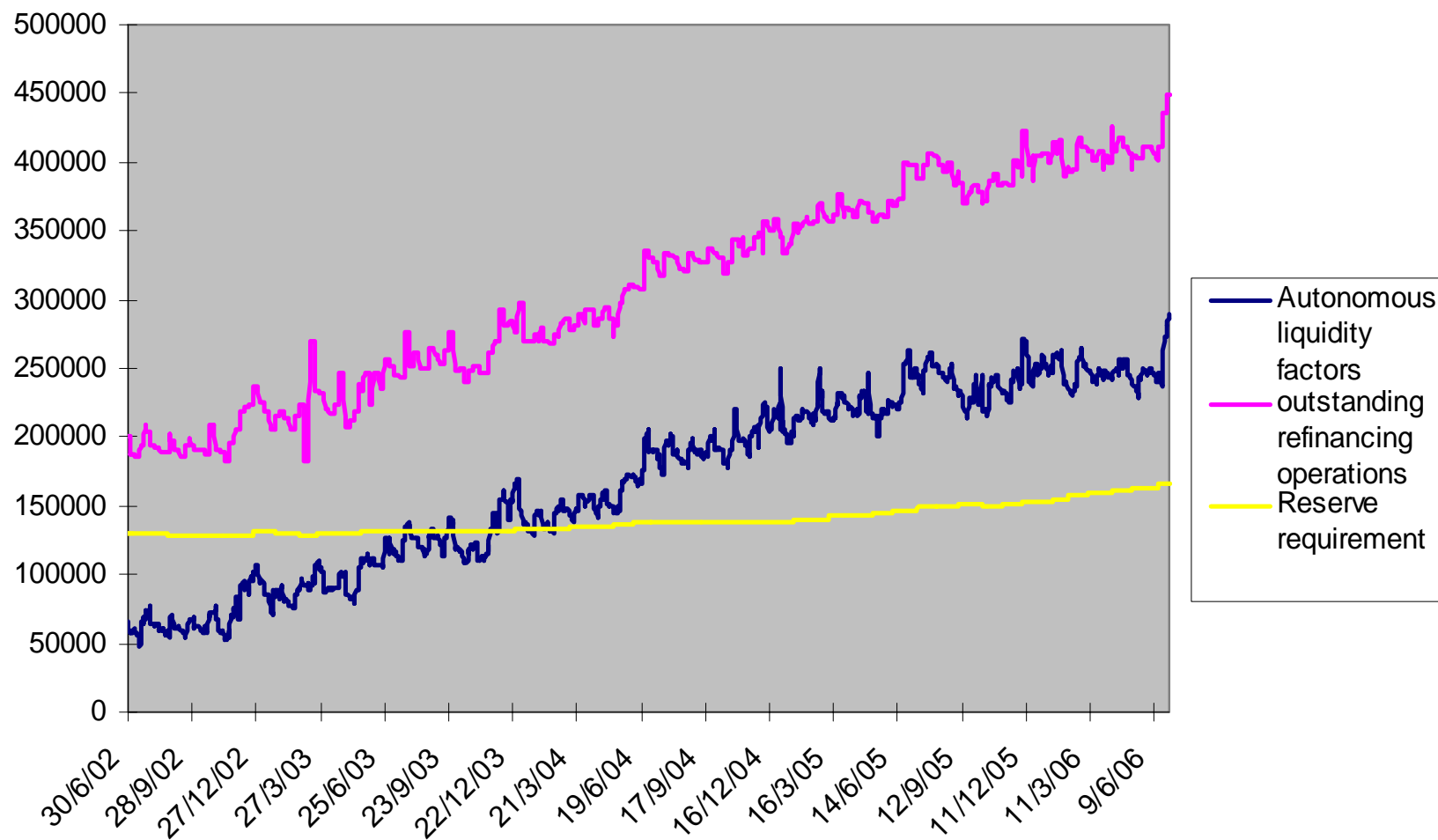


10Y asset swap spreads and 6mth Euribor: Does the turn in 10y spreads indicate the end of the current hiking cycle? Or are 10y's cheap?

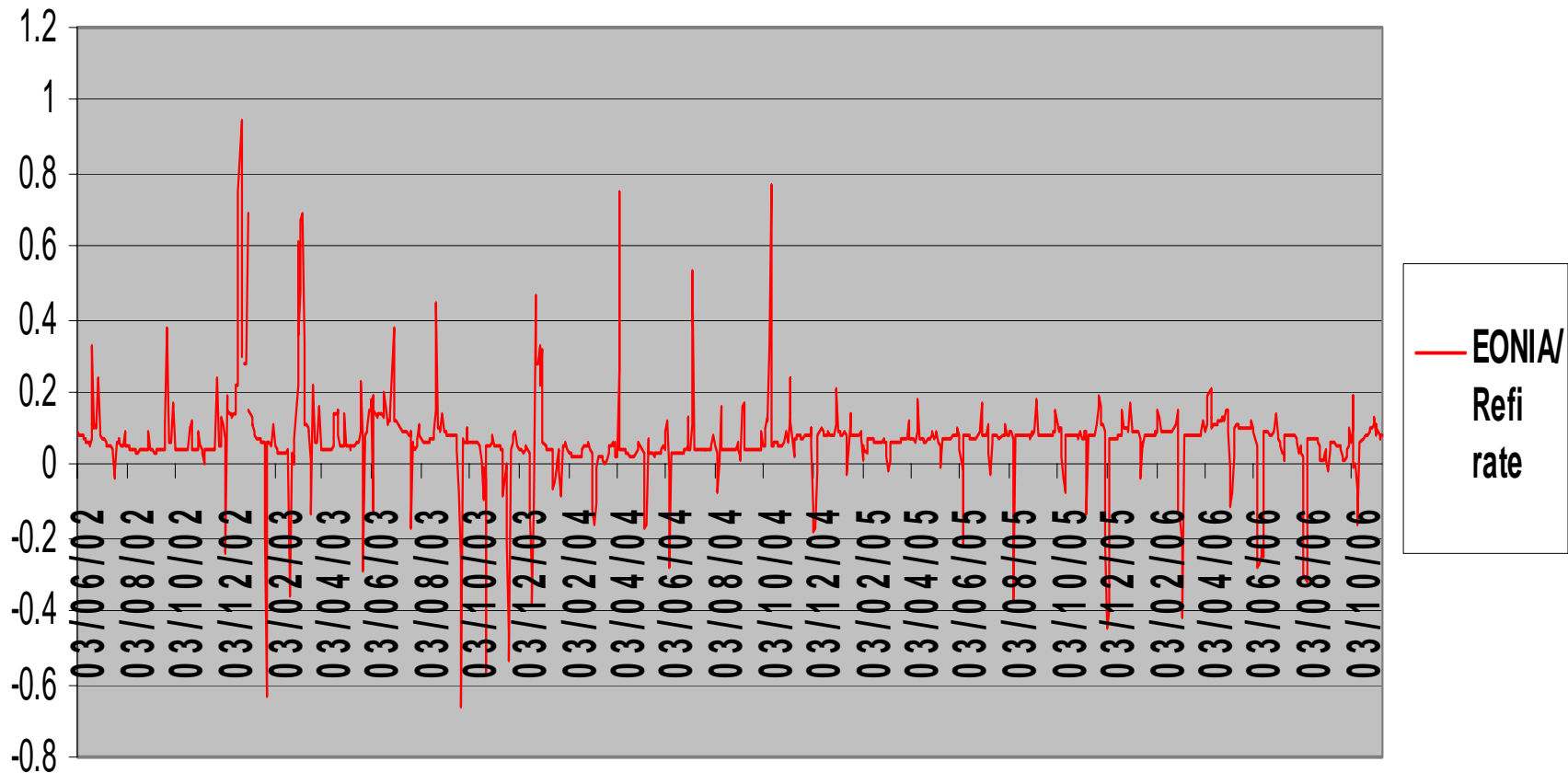
3 Jun 02 to 9 Nov 06



The total size of outstanding refinancing operations has increased from 200 bio in June 2002 to 448.5 bio in June 2006 as liquidity requirements have grown mainly from the increase in autonomous liquidity factors



The average spread of the Eonia over the min bid rate is 0.0639 (3/06/02 – 09/11/06). The spread on the first 2 days of the current reserve period is + 0.08.



PART 1

MARKET TRENDS

Unsecured

Secured

Derivatives

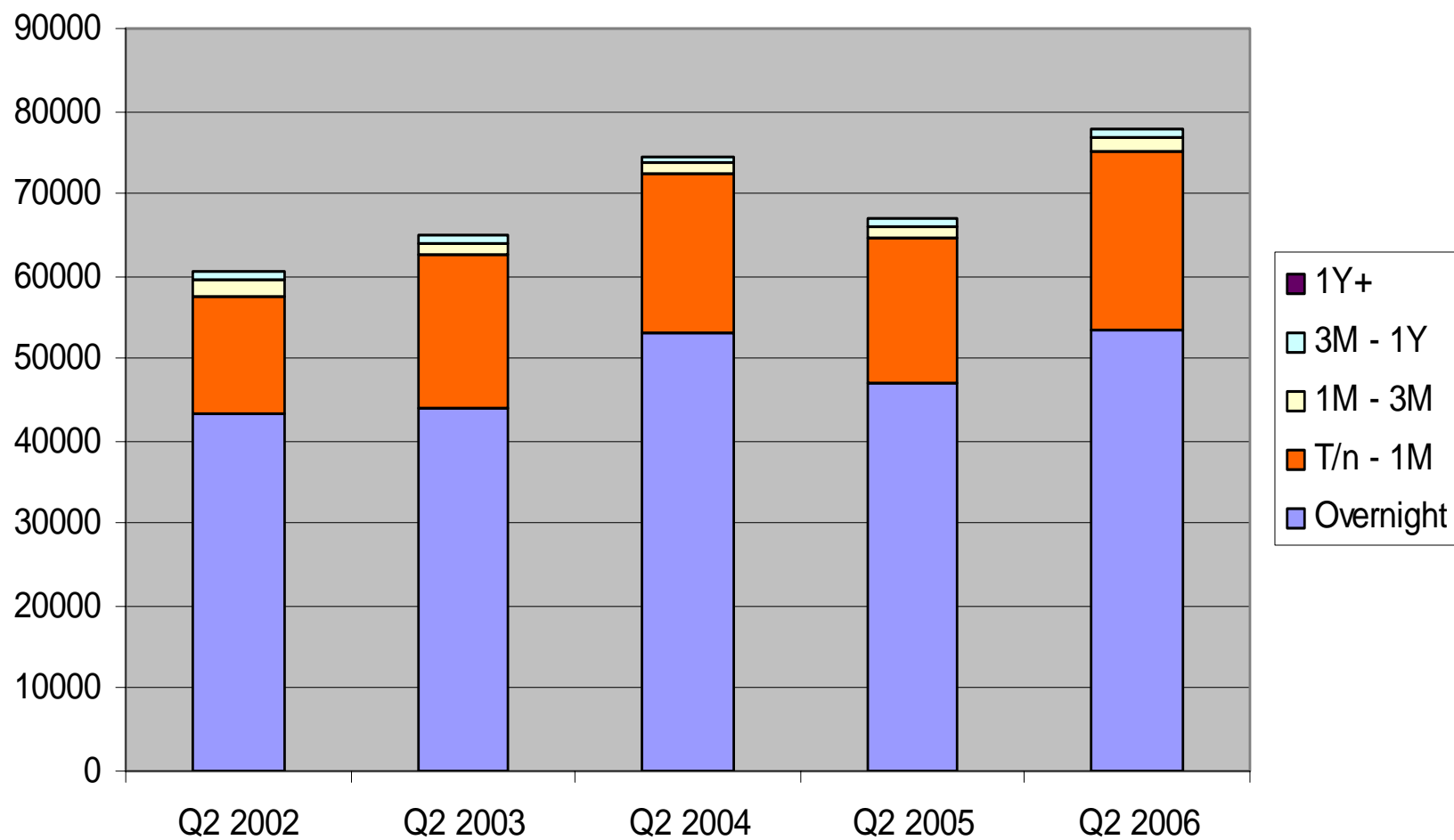
FX

Short term paper

Survey methodology

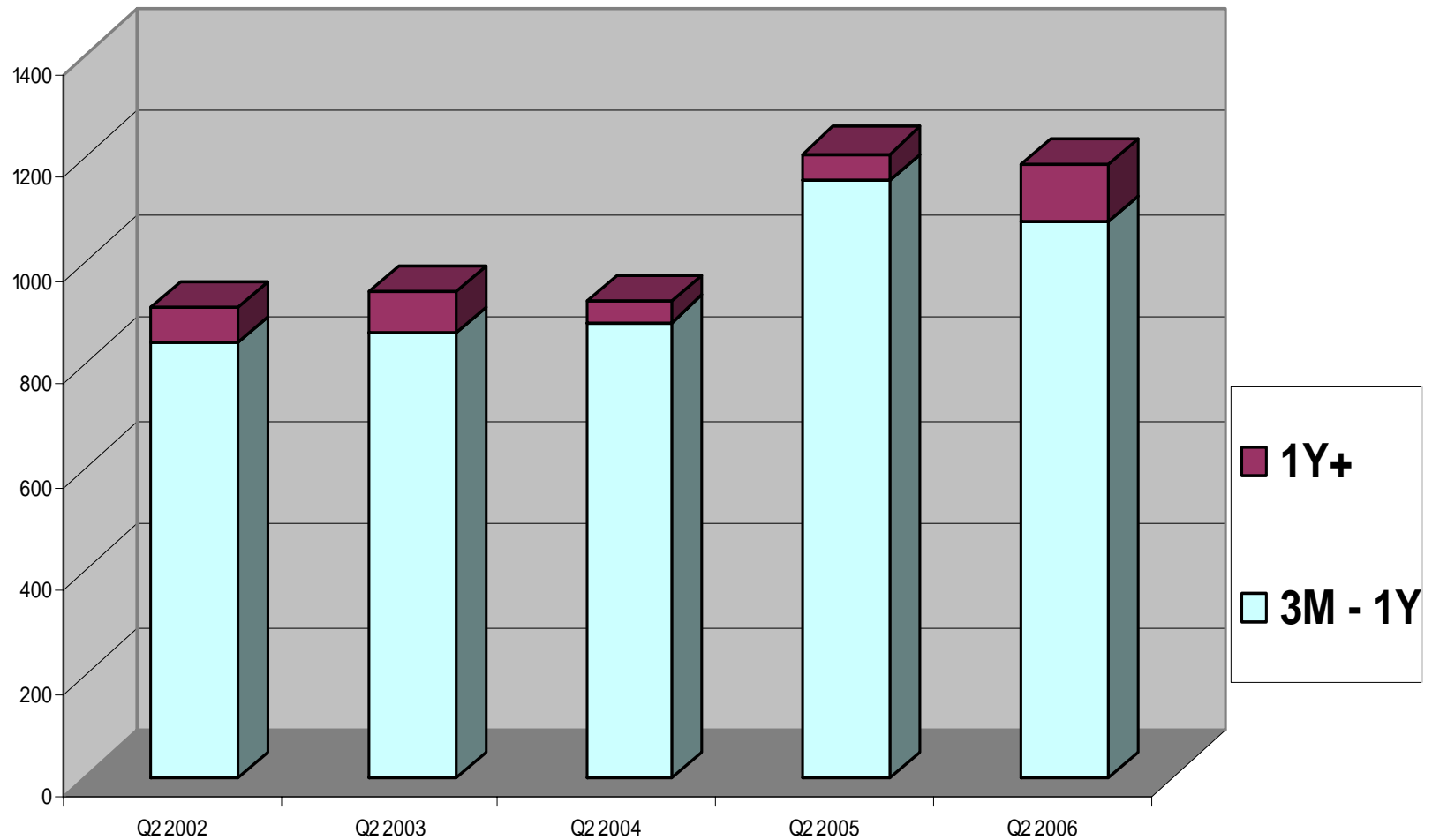
Metric	Daily average turnover
Period	Annual
Location of pannel	All 15 EU countries
Type of institutions	Pannel of Credit institutions (114) and domestic booking
Currency	Only Euro leg
Transactions	Only interbank (excluding intragroup, Corporates, Central banks)

Unsecured lending. Panel:114 Banks

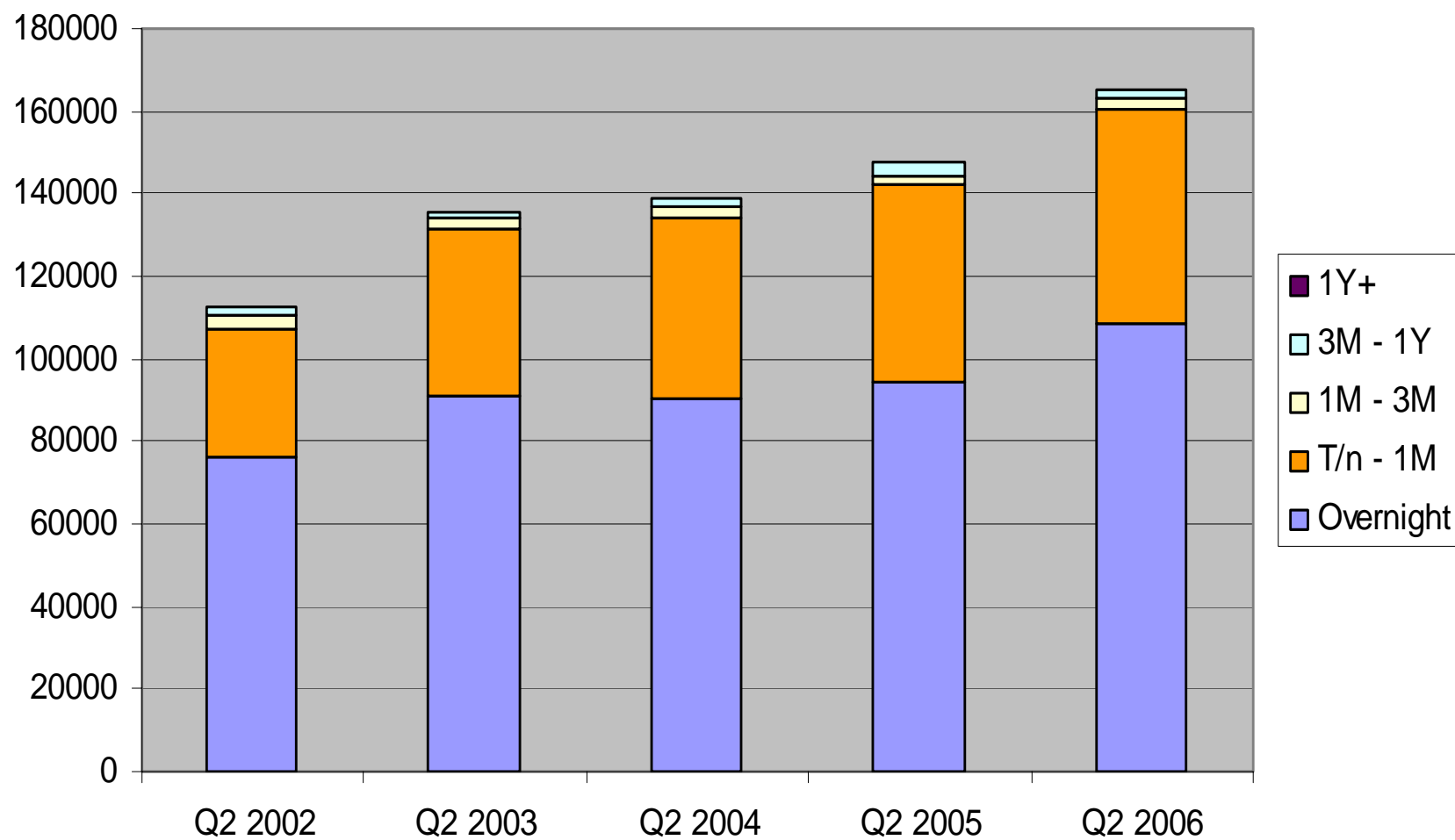


Unsecured lending. Panel:114 Banks

Breakdown of activity 3mth and over

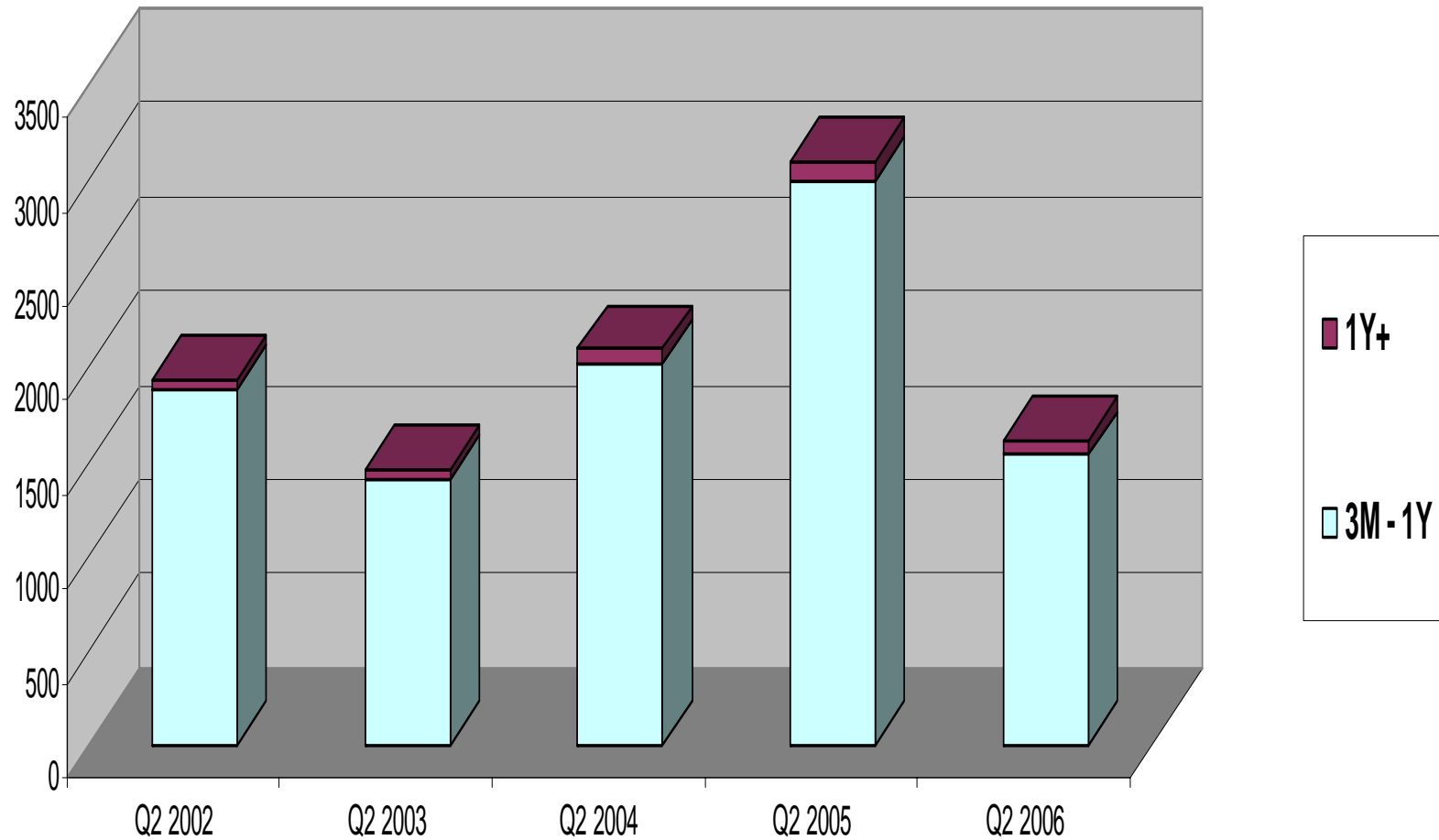


Unsecured borrowing. Panel:114 Banks



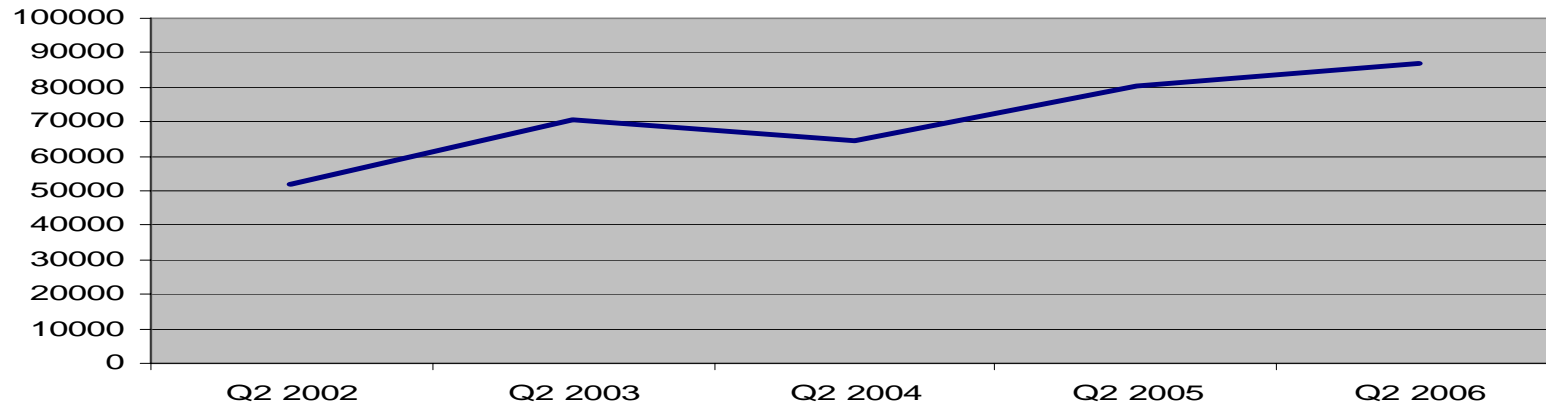
Unsecured borrowing. Panel:114 Banks

breakdown of activity 3mth and over

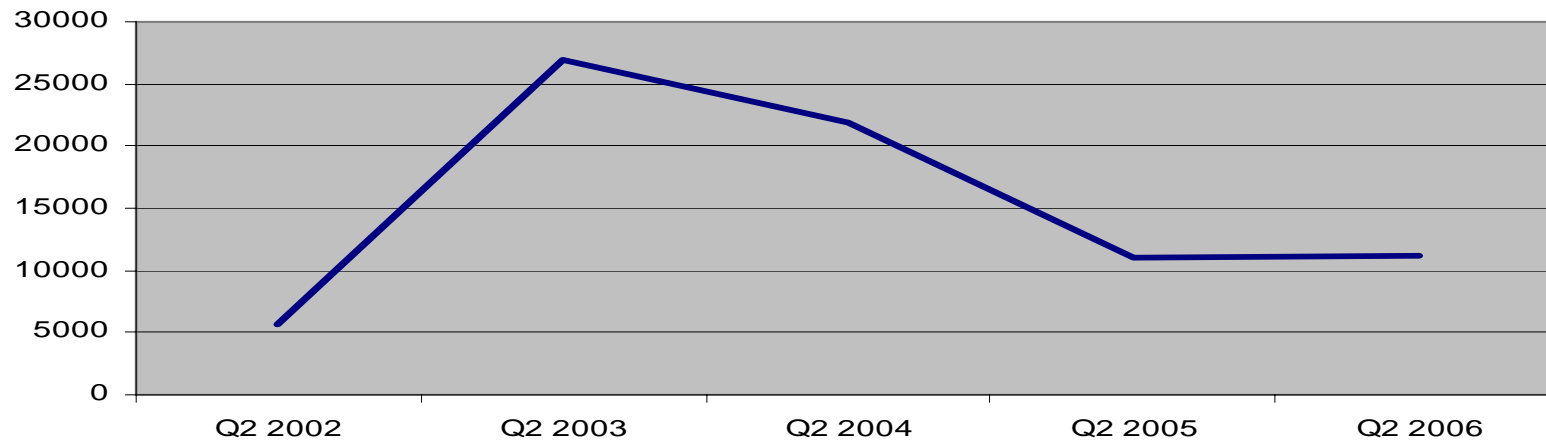


As volumes have grown so has the gap between unsecured lending and borrowing from 51.8 bio in 2002 to 87 bio in 2006

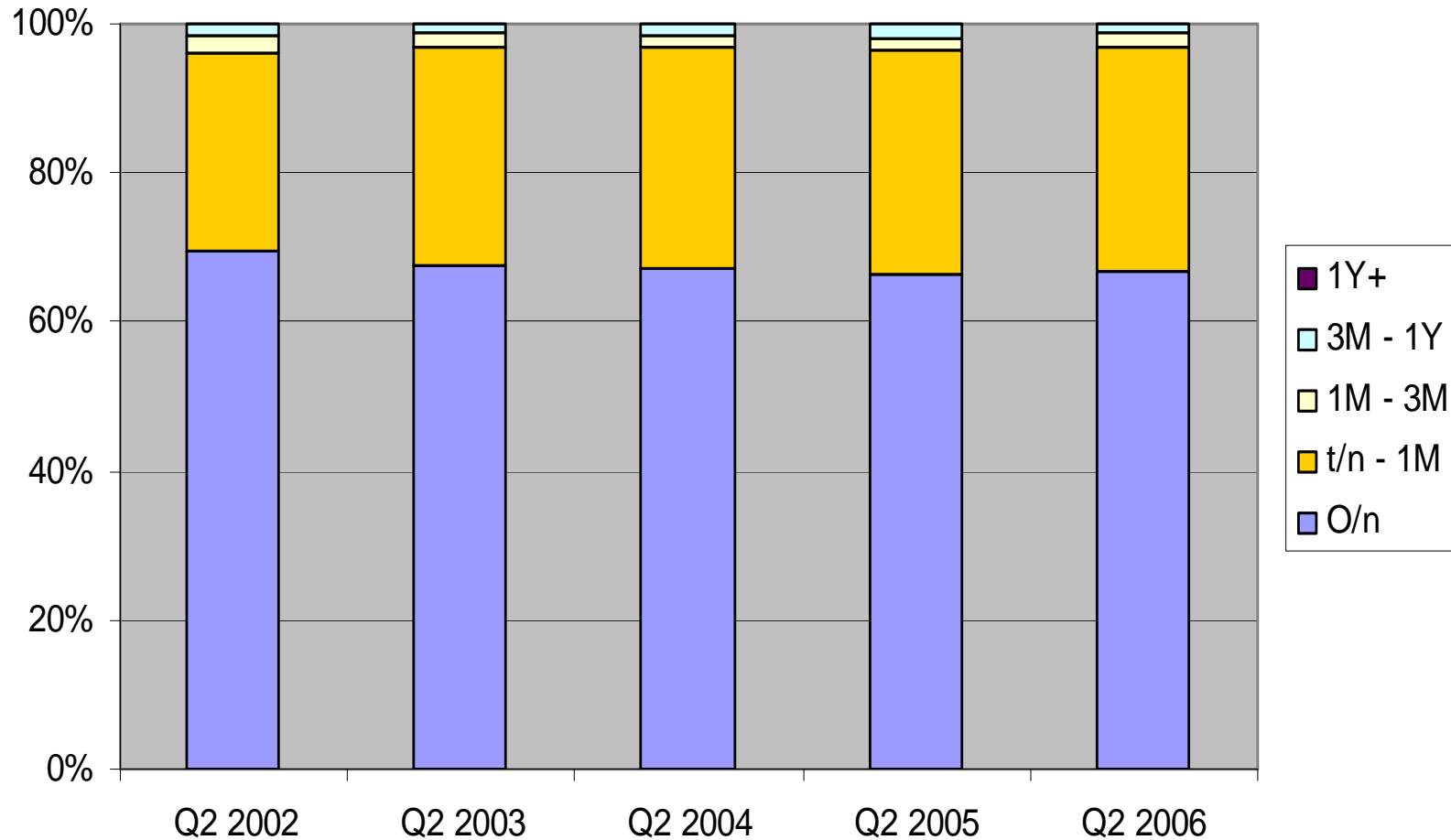
Unsecured borrowing - Unsecured lending



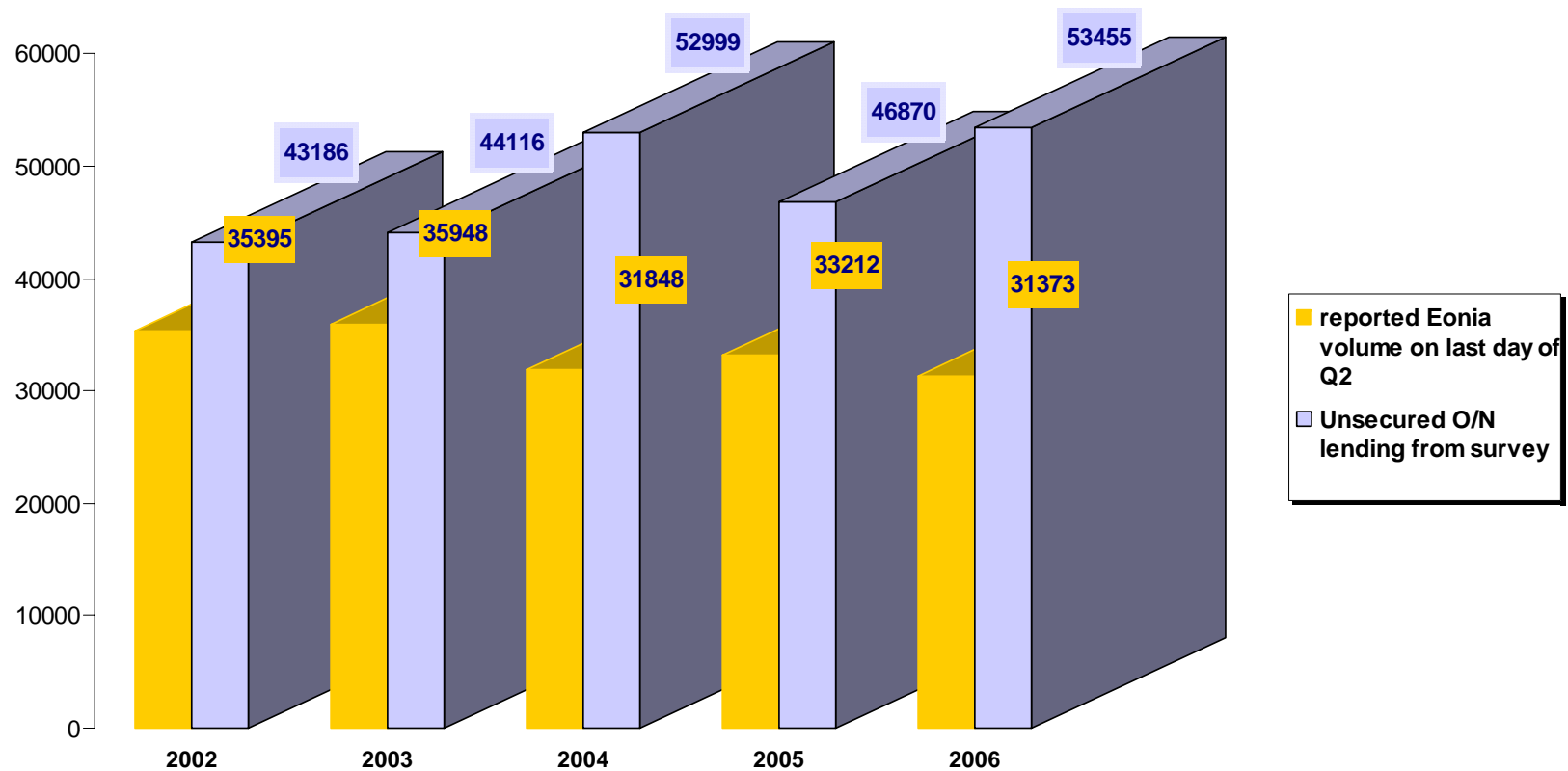
Secured borrowing - Secured lending



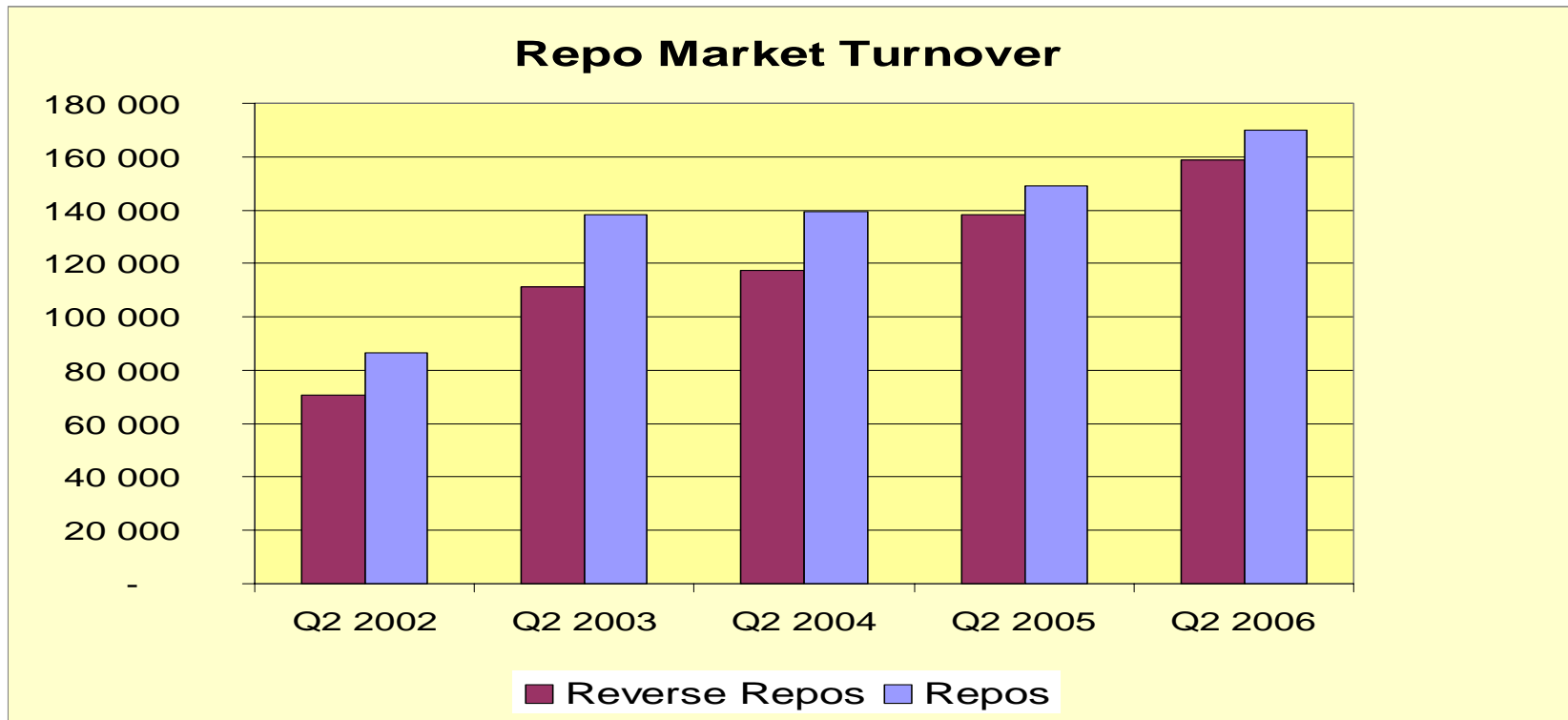
Maturity profile for unsecured cash (borrowing & lending): close to 95% of turnover is 1mth and under.



Although there has been a steady increase in unsecured lending (our panel 114 Banks), the volume at the Eonia fixing is stable. From our qualitative survey we see that 20% of unsecured cash business is done away from euro area or national counterparties.



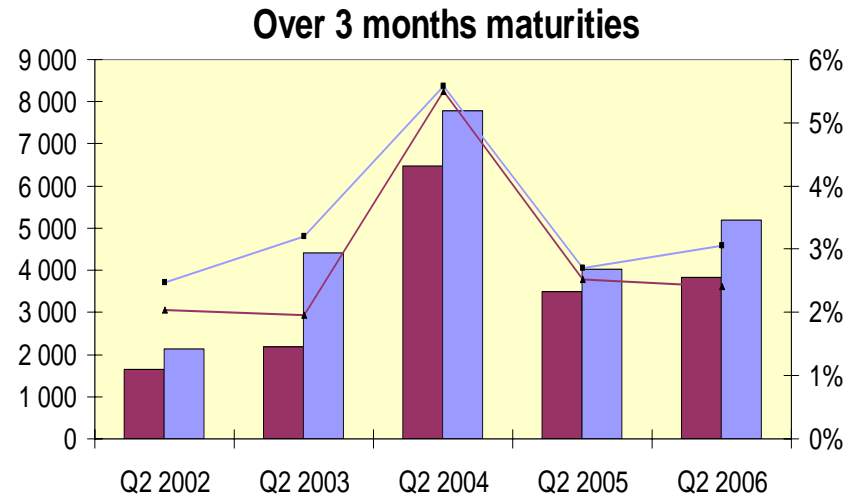
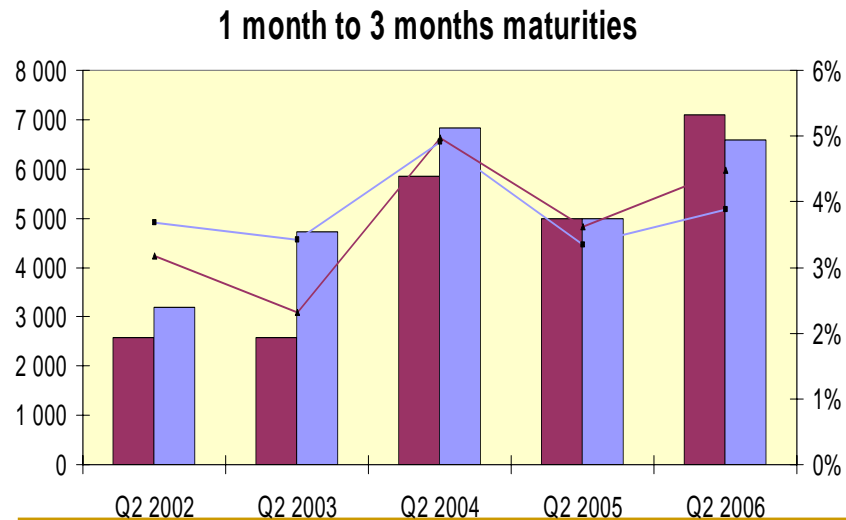
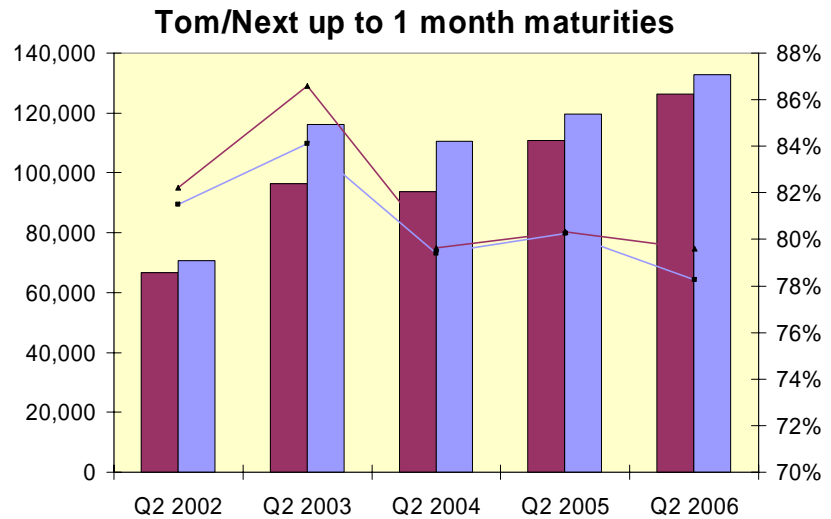
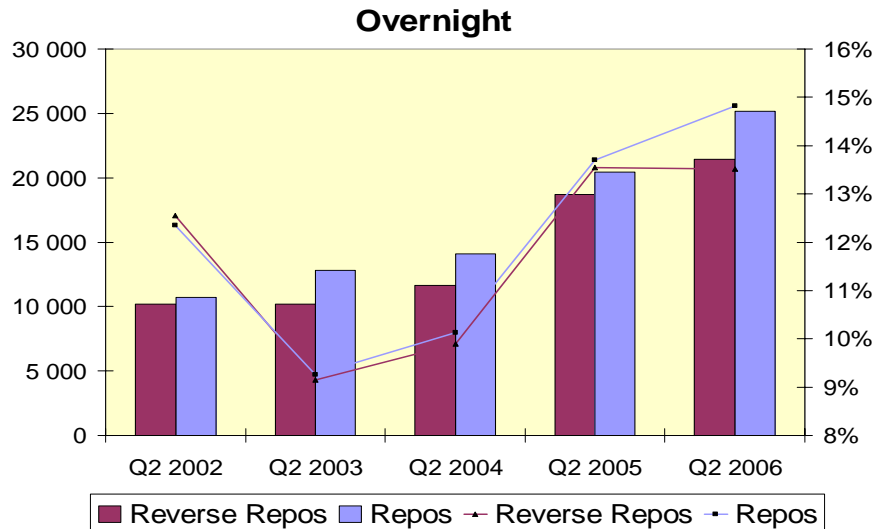
REPO Global Market Turnover



- Nominal Traded Volume increased by 96% between 2002 and 2006
- Globally, Repo activity remains greater than Reverse Repos
- After initial surge in volume 2002/2003 (+37%), the rate of growth has slowed for the period 2003-2006 (average of 13% per Year)

REPO – Breakdown by maturities

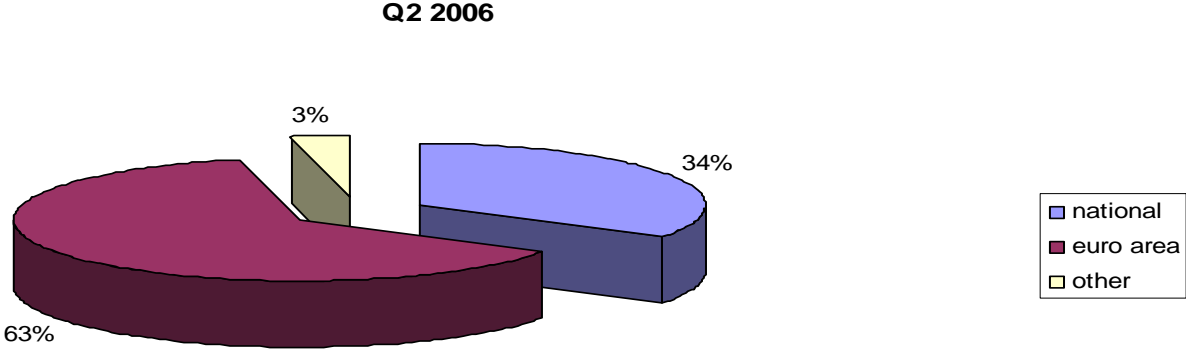
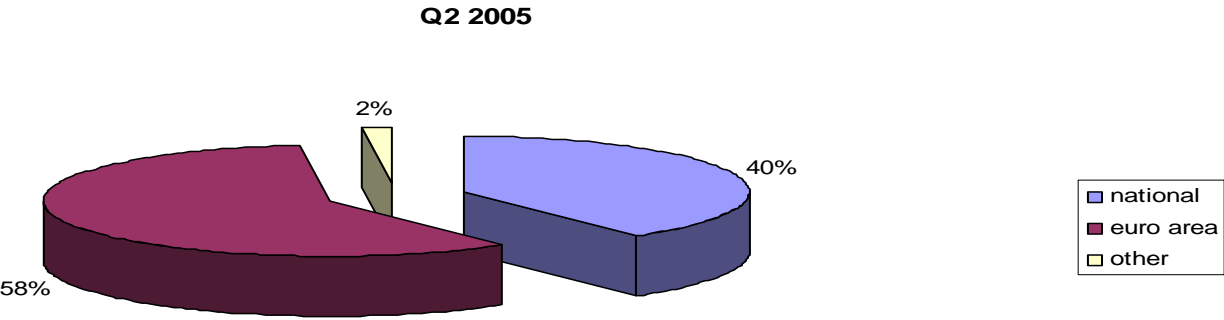
by nominal (rhs) and as a proportion of all maturity buckets (rhs)



REPO – Breakdown by maturities

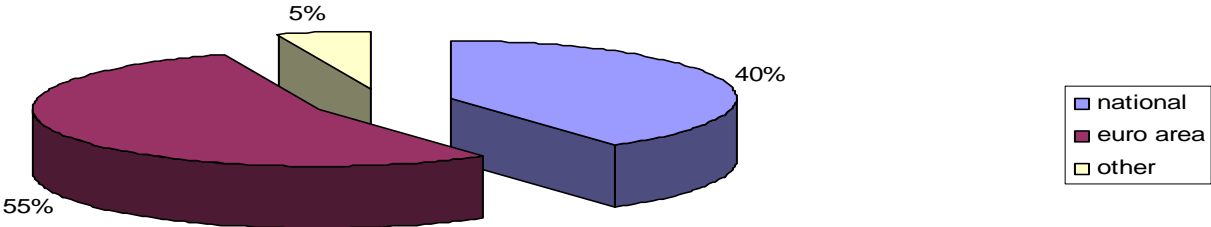
- In terms of nominal volume, the bulk of the activity remains in the '*Tom/Next up to 1 month maturities*' bucket, although its proportion of the overall volume has decreased
 - Overnight bucket is steadily increasing in nominal and relative terms since 2003
 - Generally, Repo volumes are greater than Reverse Repo, with the exception of the latest '*1 month to 3 months maturities*' figures.
-

2005-2006 Bilateral repo collateral split, cash lending: 159 Banks, 93 active

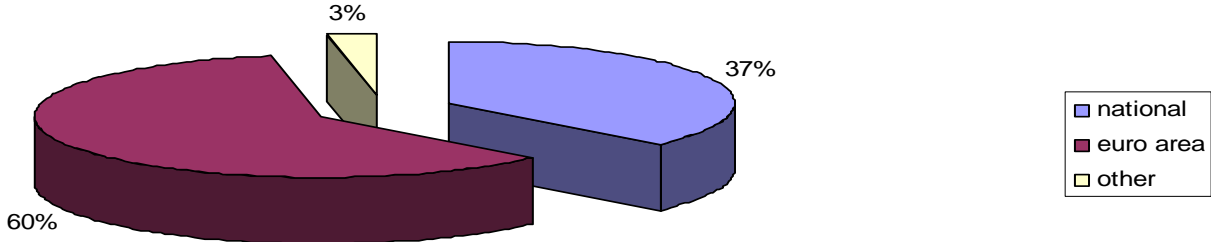


2005-2006 Bilateral repo collateral split, cash borrowing: 159 Banks, 96 active

Q2 2005

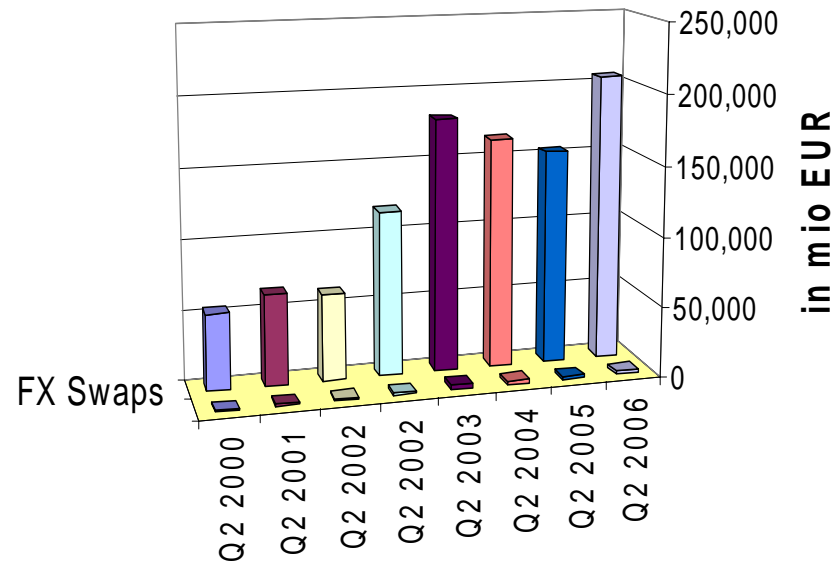


Q2 2006

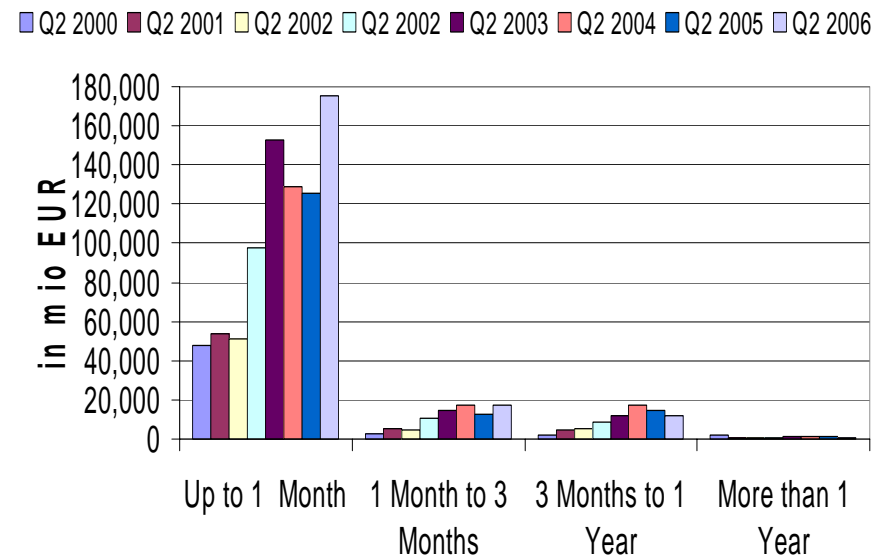


Fx swaps

Fx and Cross currency swaps



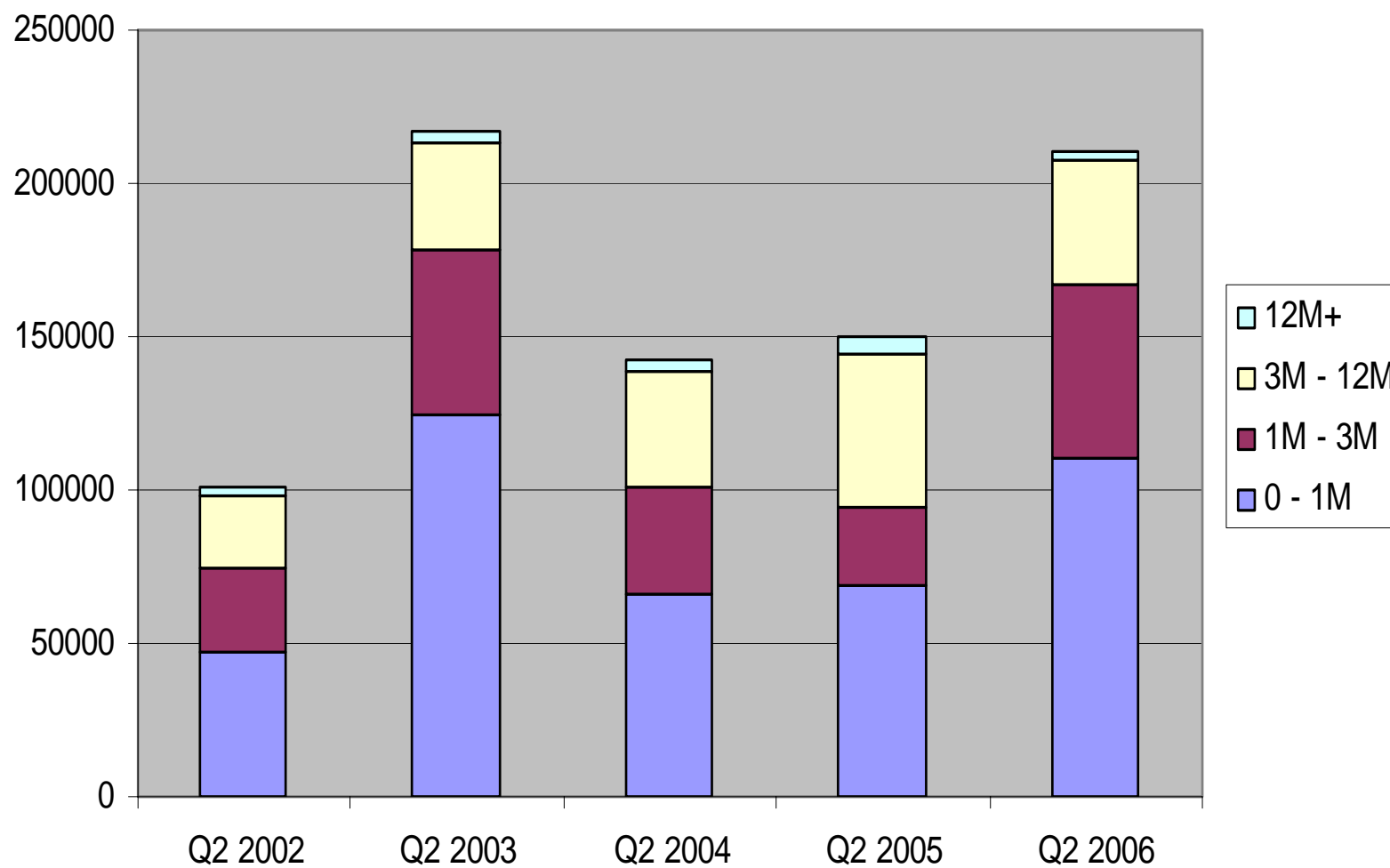
Fx swaps per maturity



- Fx swaps turnover jumps by 34 % (Q2 2006/2005)
- 85 % is below 1 month (75 % below 1 week)
- The average maturity decreases and is now 18 days (26 days Q2 2005) .

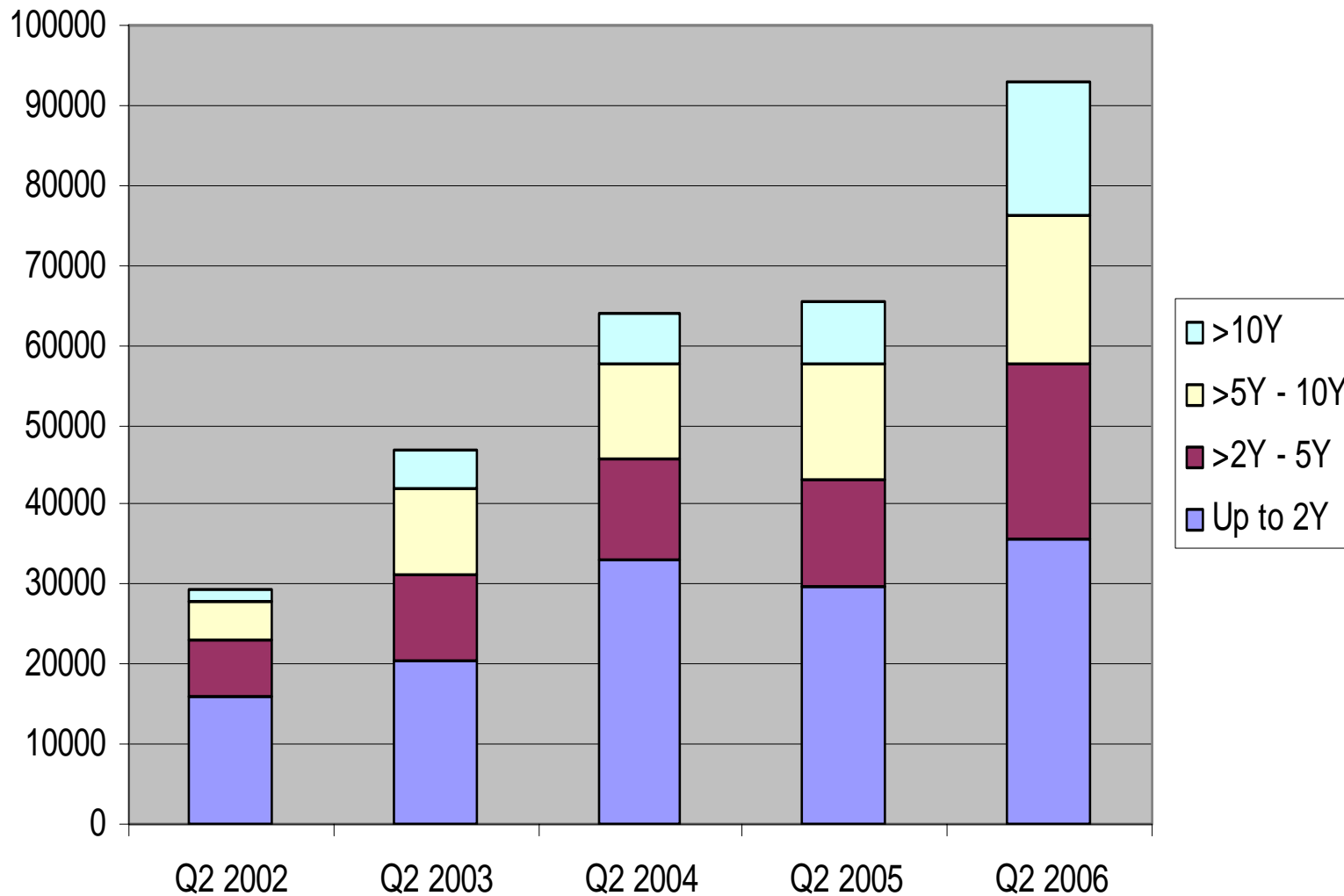
☞ *Banks use more Fx swaps as a Treasury product in their daily multicurrency liquidity management ?*

OIS total turnover. Panel:114 Banks

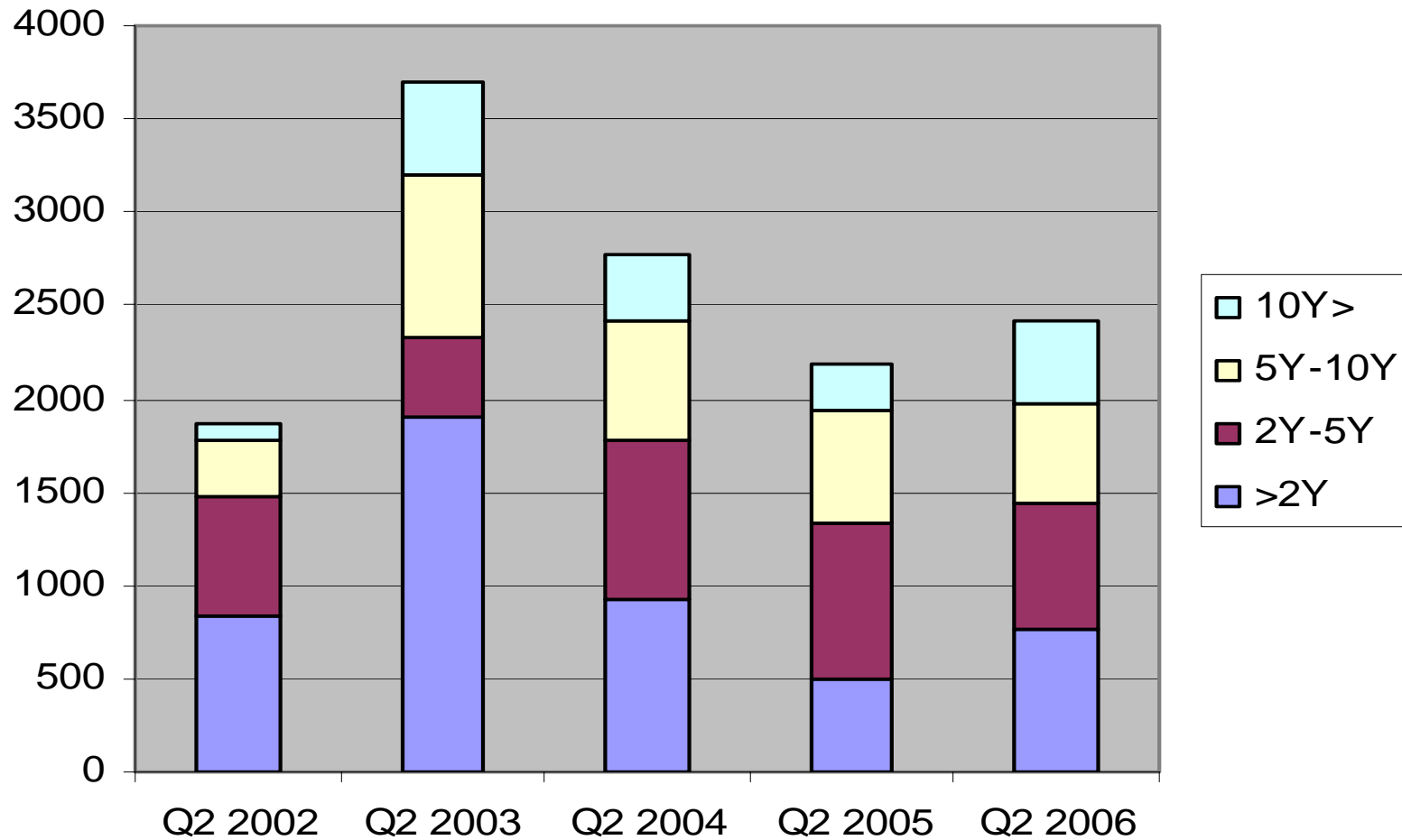


Other IRS total turnover. Panel:114 Banks

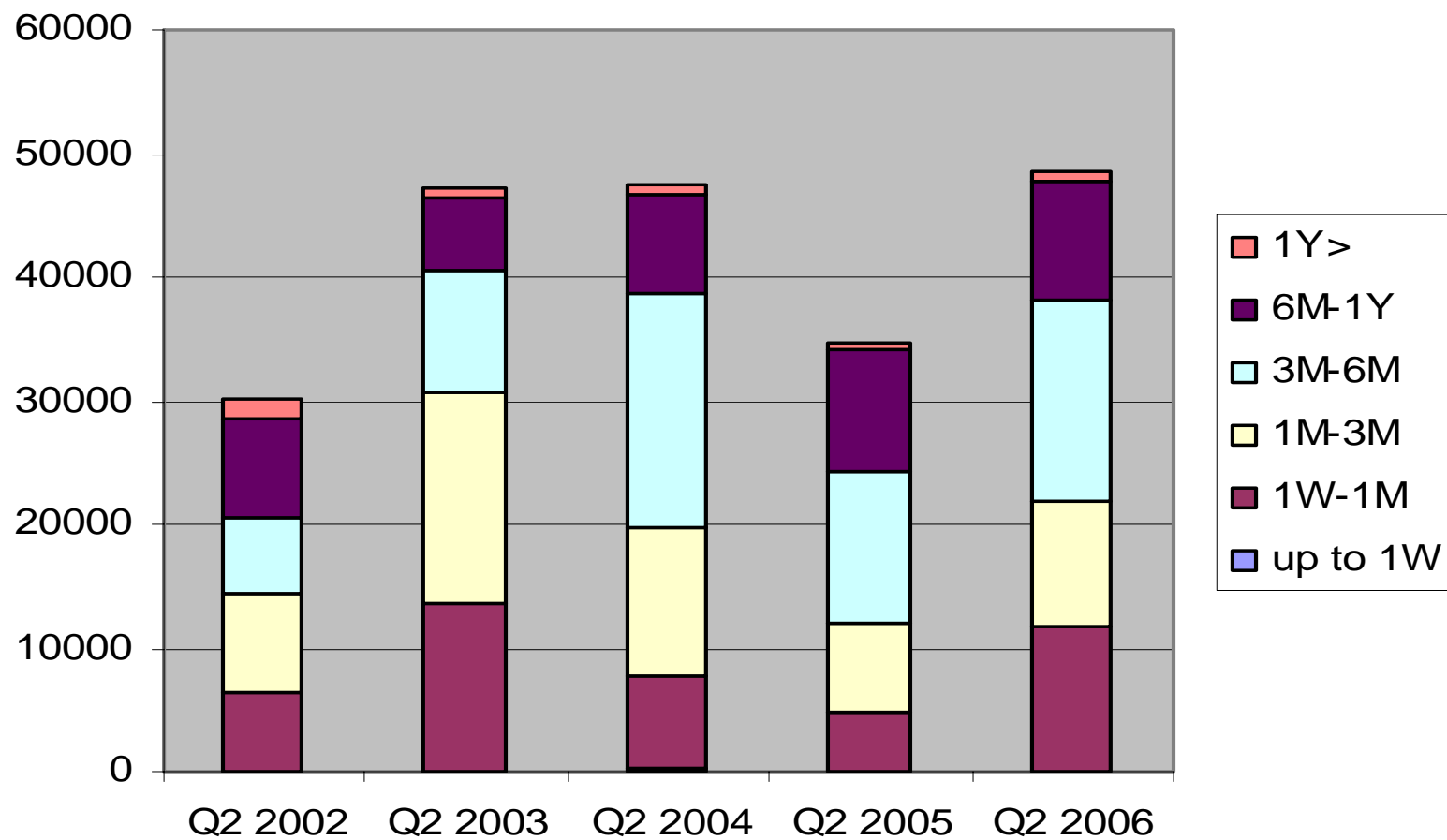
growth in volume 10y and over is due to Pension fund buying of longer term assets



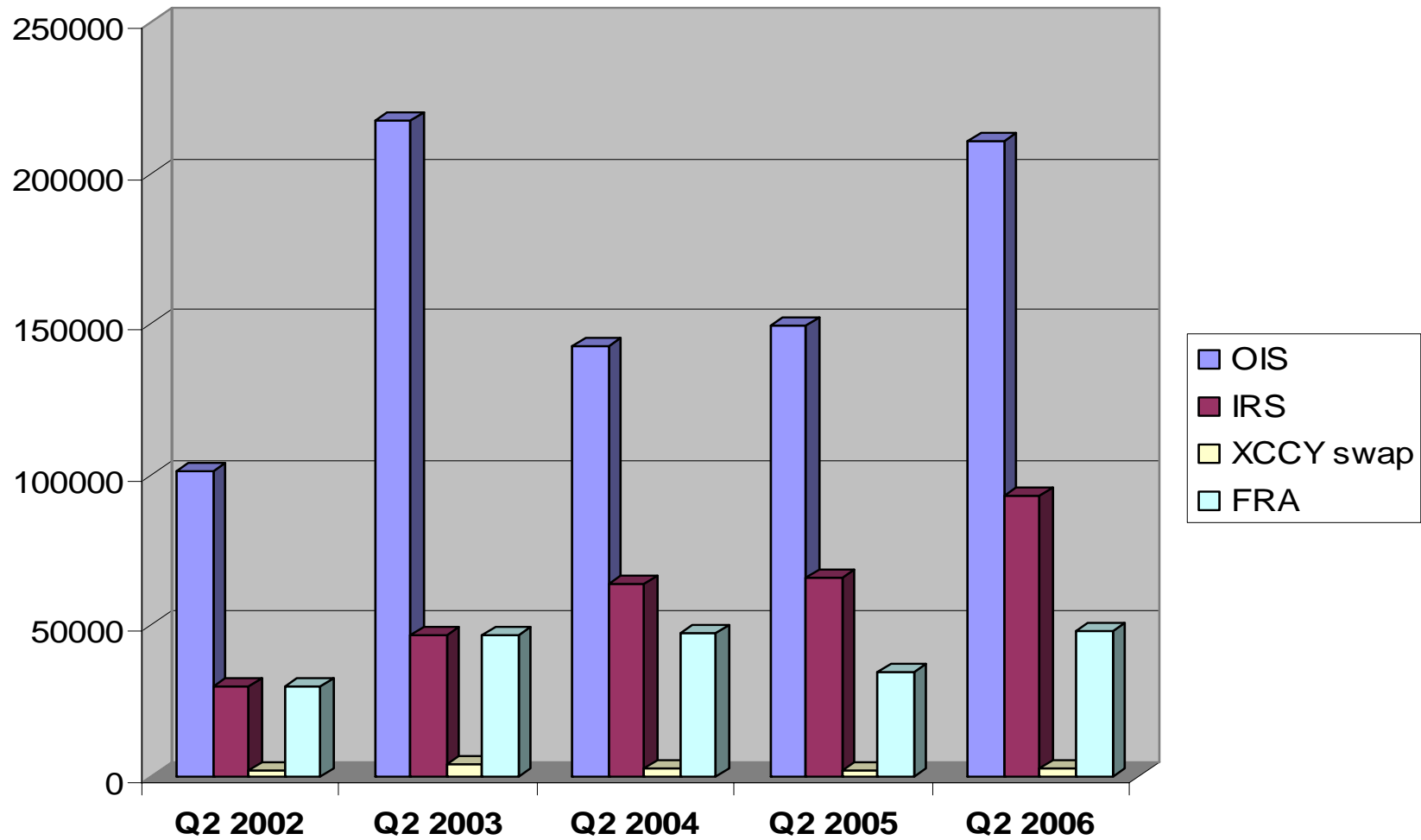
Xccy total turnover. Panel:114 Banks



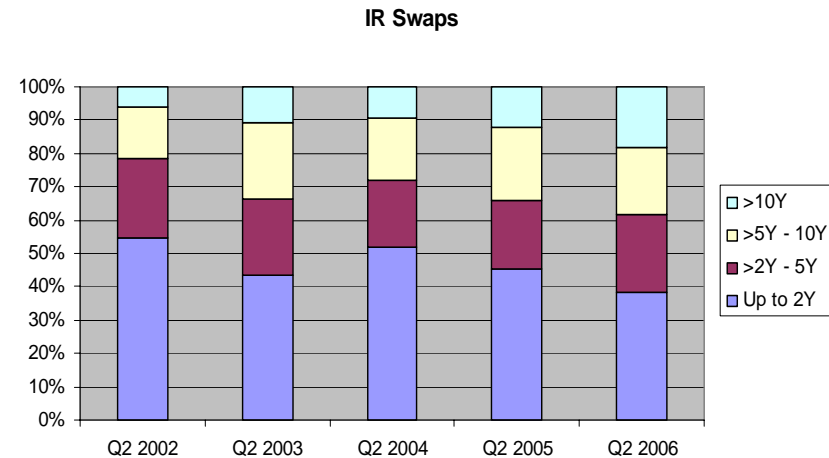
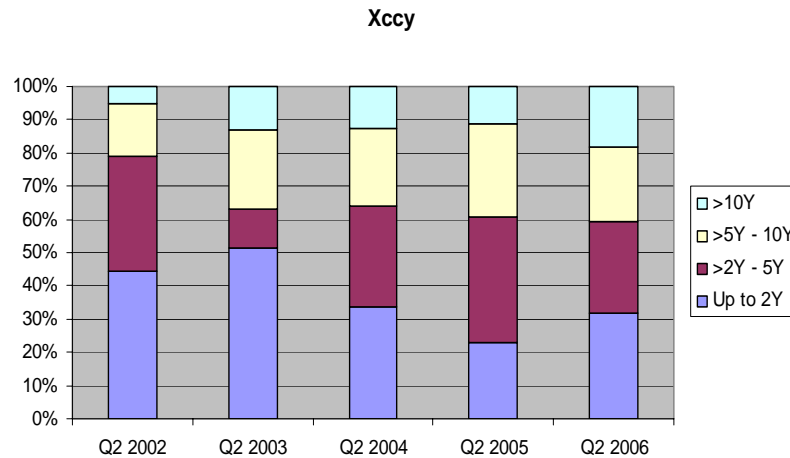
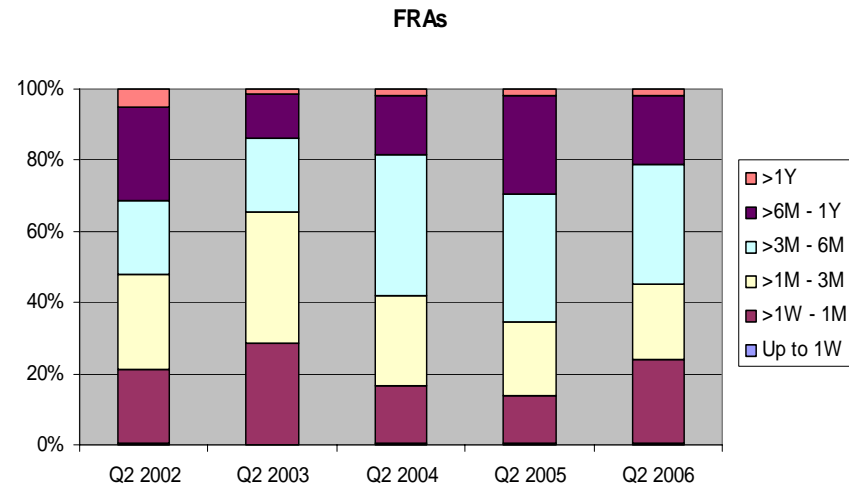
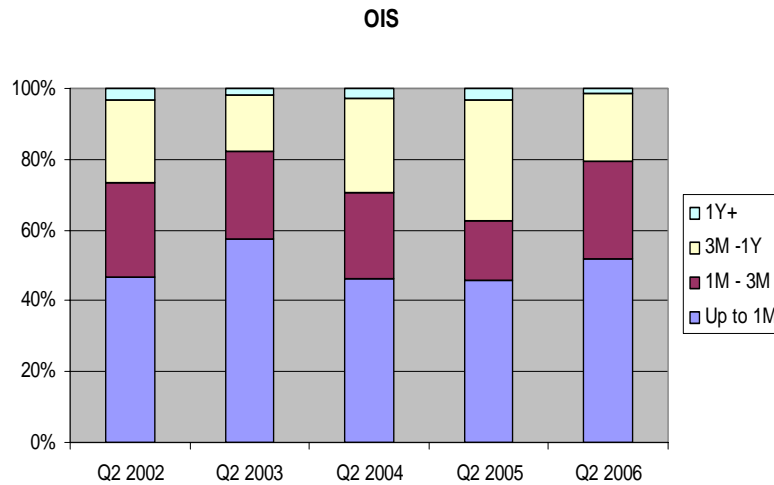
FRA total turnover. Panel:114 Banks



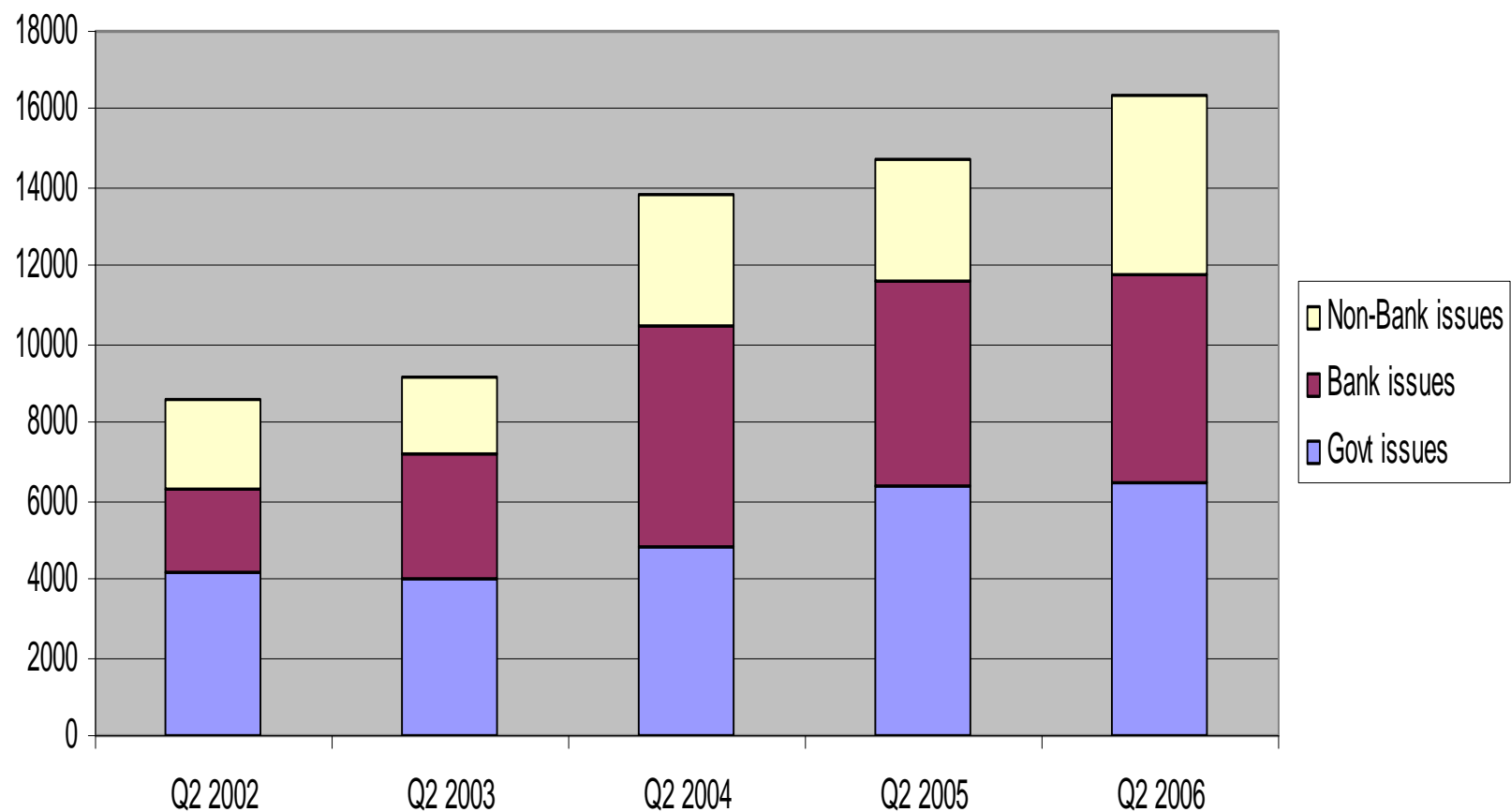
Total derivatives turnover: Panel:114 Banks



Maturity profile for derivatives: Almost 80% of OIS trades are under 3mths, almost 80% of FRAs are under 6mths. The maturity profile in IRS has been extended.



Short-term securities. Panel:114 Banks



PART TWO

PLAYER TRENDS

concentration of the market

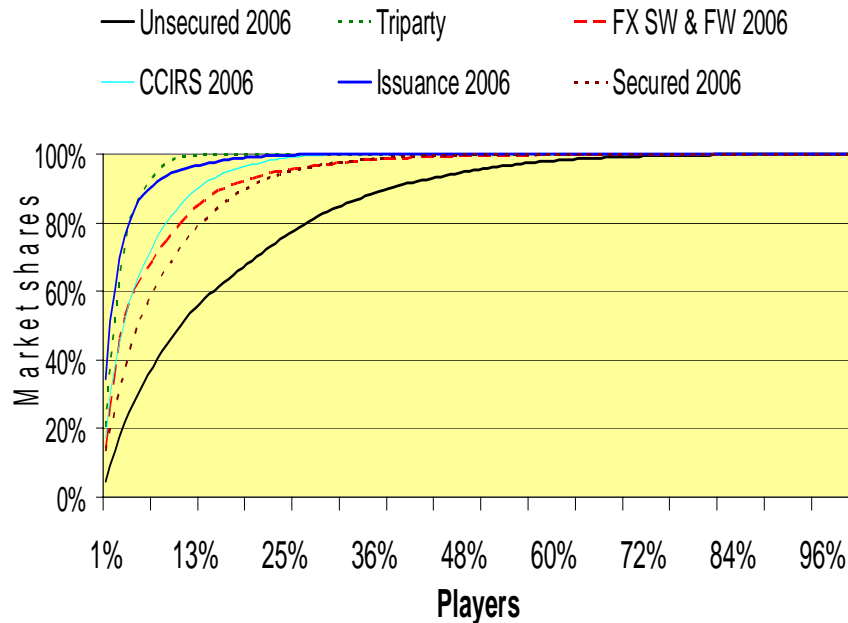
total turnover in all products

qualitative information on the Euro market

Concentration (on-balance sheet)

Curve of Lorentz

Balance sheet products



Market shares of 20% players

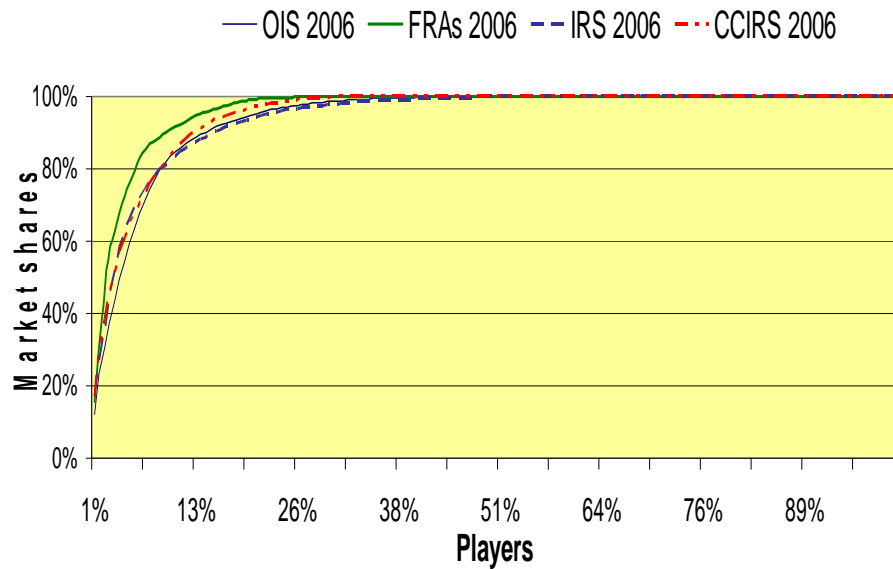
	2005	2006
Secured	89%	91%
Unsecured	69%	69%
Triparty	100%	100%
FX SW & FW	91%	93%
Issuances	99%	99%

- All markets are highly concentrated. In triparty and Cd's, 80% of the market is in the hands of 4% players.
- In all other segments, this trend is confirmed (Q2 2005/Q2 2006).

Concentration (off-balance sheet)

Curve of Lorentz

Off-Balance sheet products

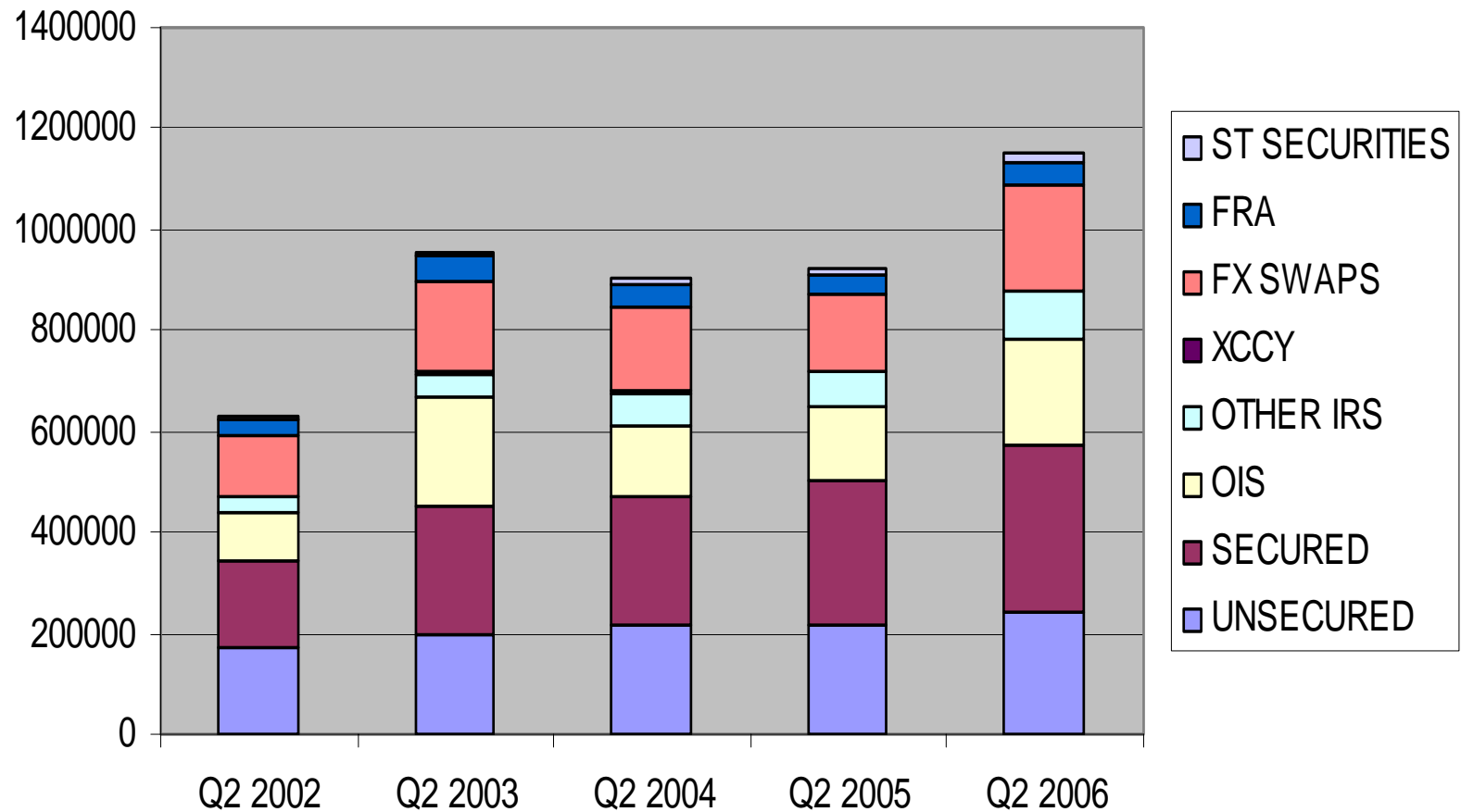


Market shares of 20% players

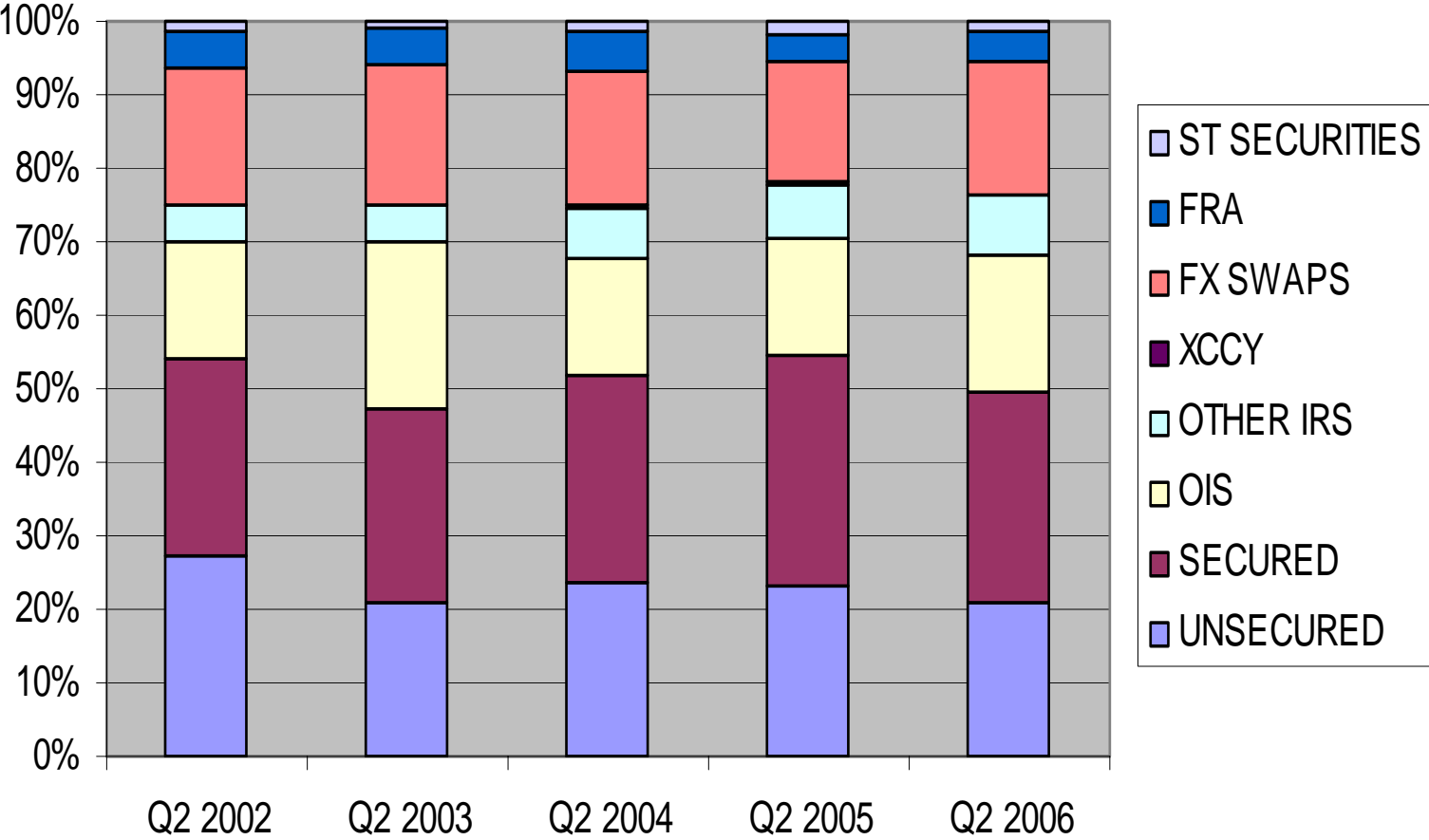
	2005	2006
OIS	95%	95%
FRAs	98%	99%
IRS	93%	94%
CCIRS	97%	97%

- 5 % of players (6) get more than 60% of market share in all products.
- More concentration for the first tier of market players (Q2 05/06).

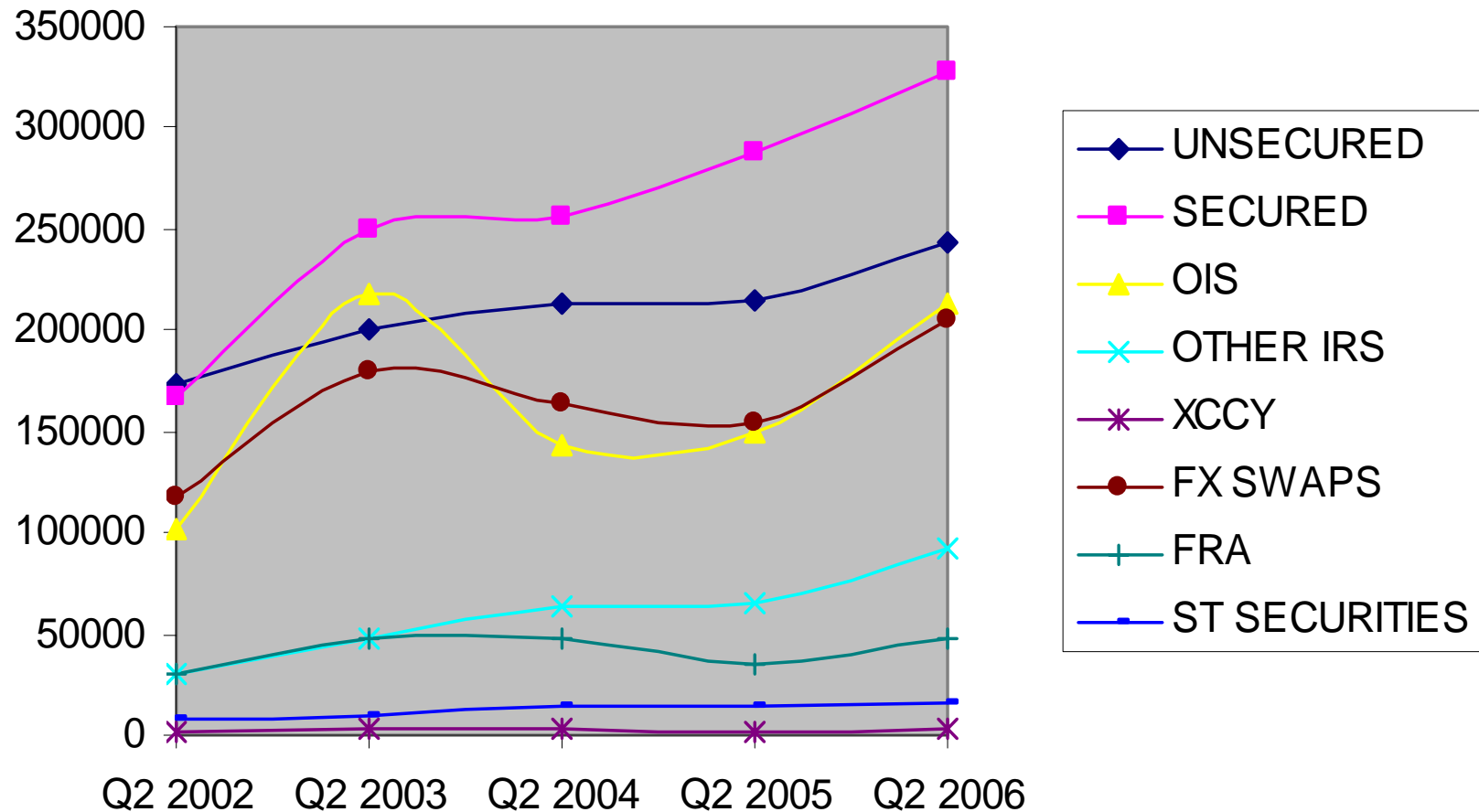
Total turnover all products in volume: volume has increased to 1,149 bio in Q2 2006 from 629 bio in Q2 2002 an increase of 520 bio



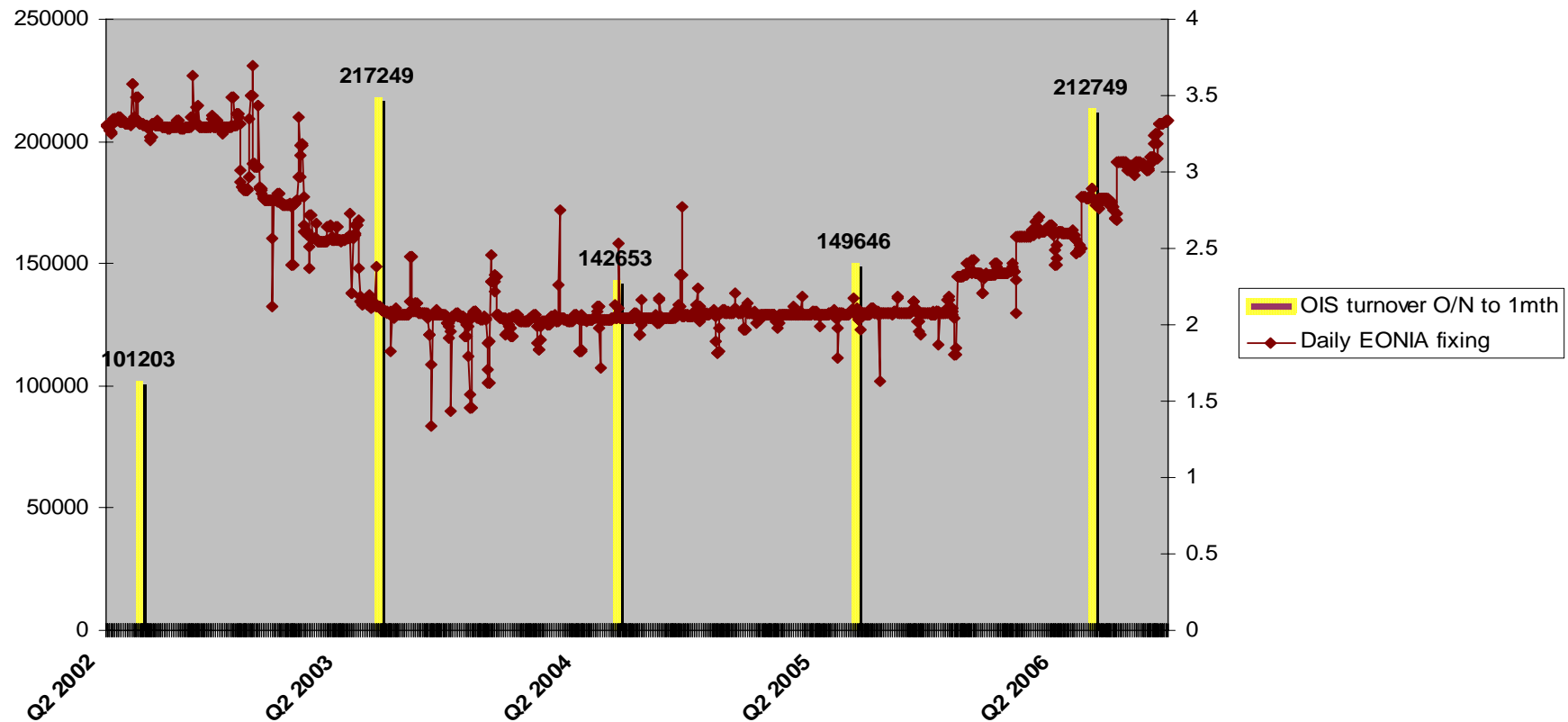
Total turnover all products %



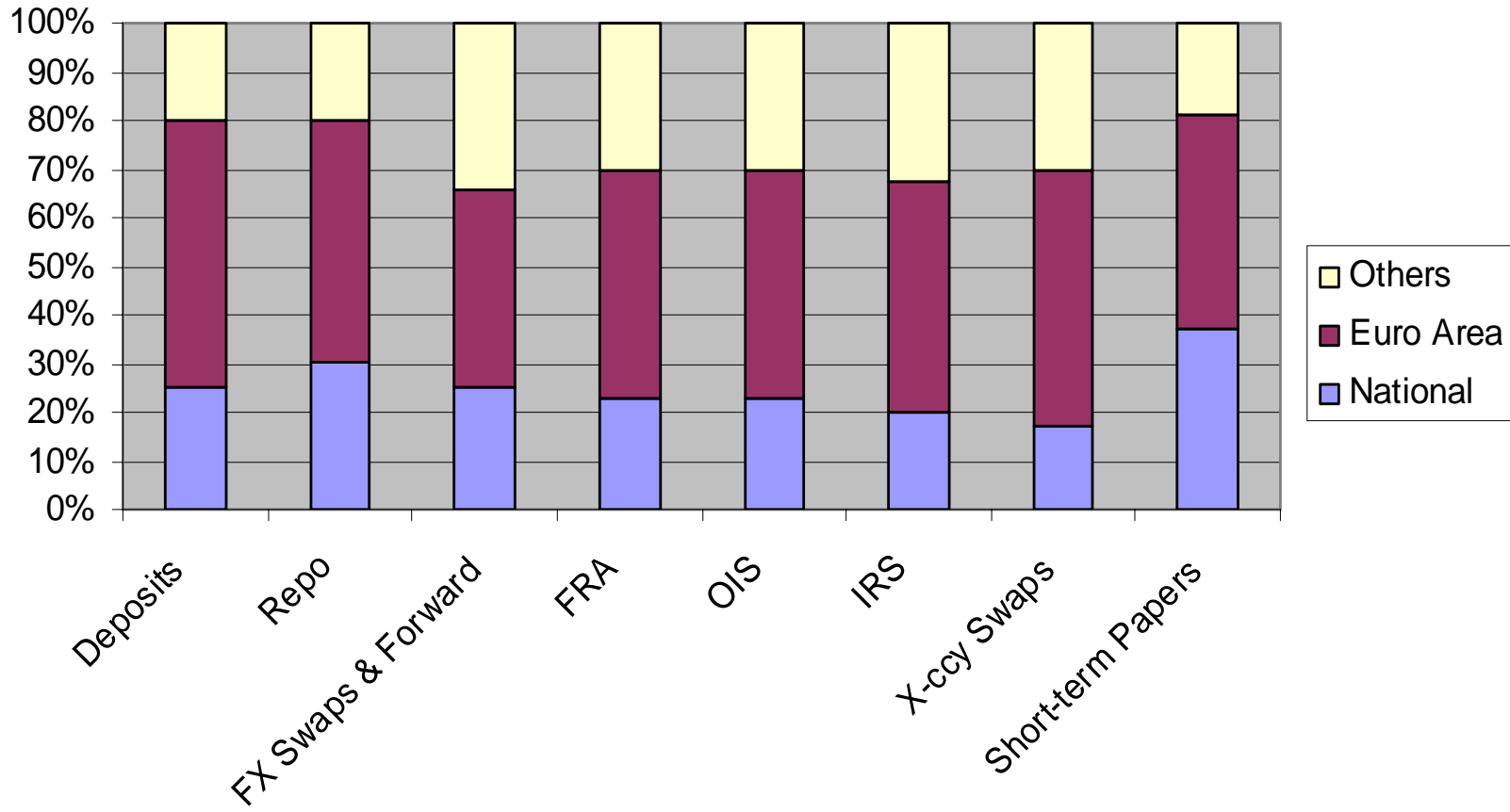
Total turnover all products: the biggest growth is in the secured market where overall turnover has increased 93% since Q2 2002



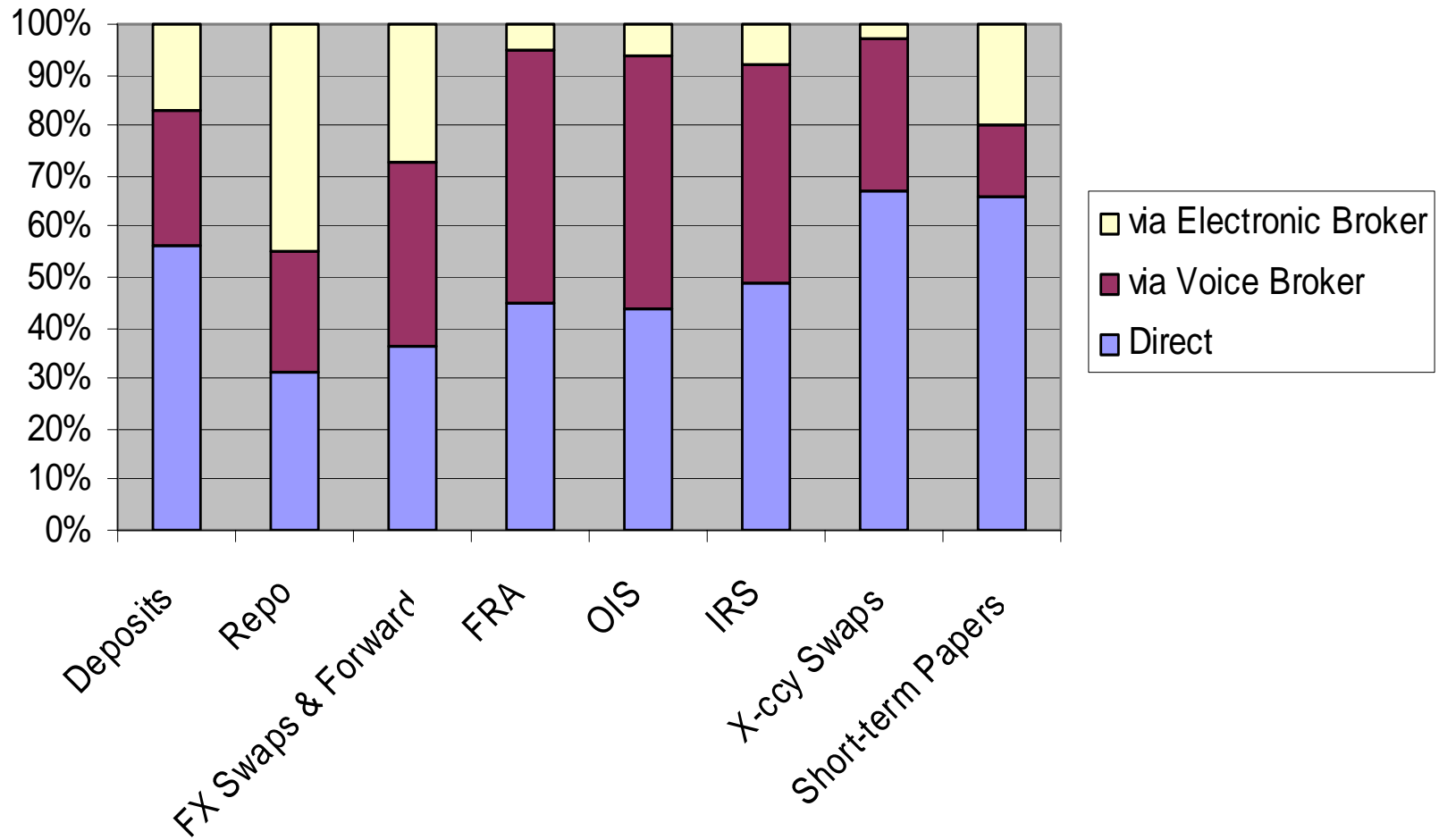
Daily EONIA fixing and OIS turnover: whilst the growth in most products is upwards, in the derivatives market the volumes tend to fluctuate depending on the rate cycle and so it is harder to measure organic growth.



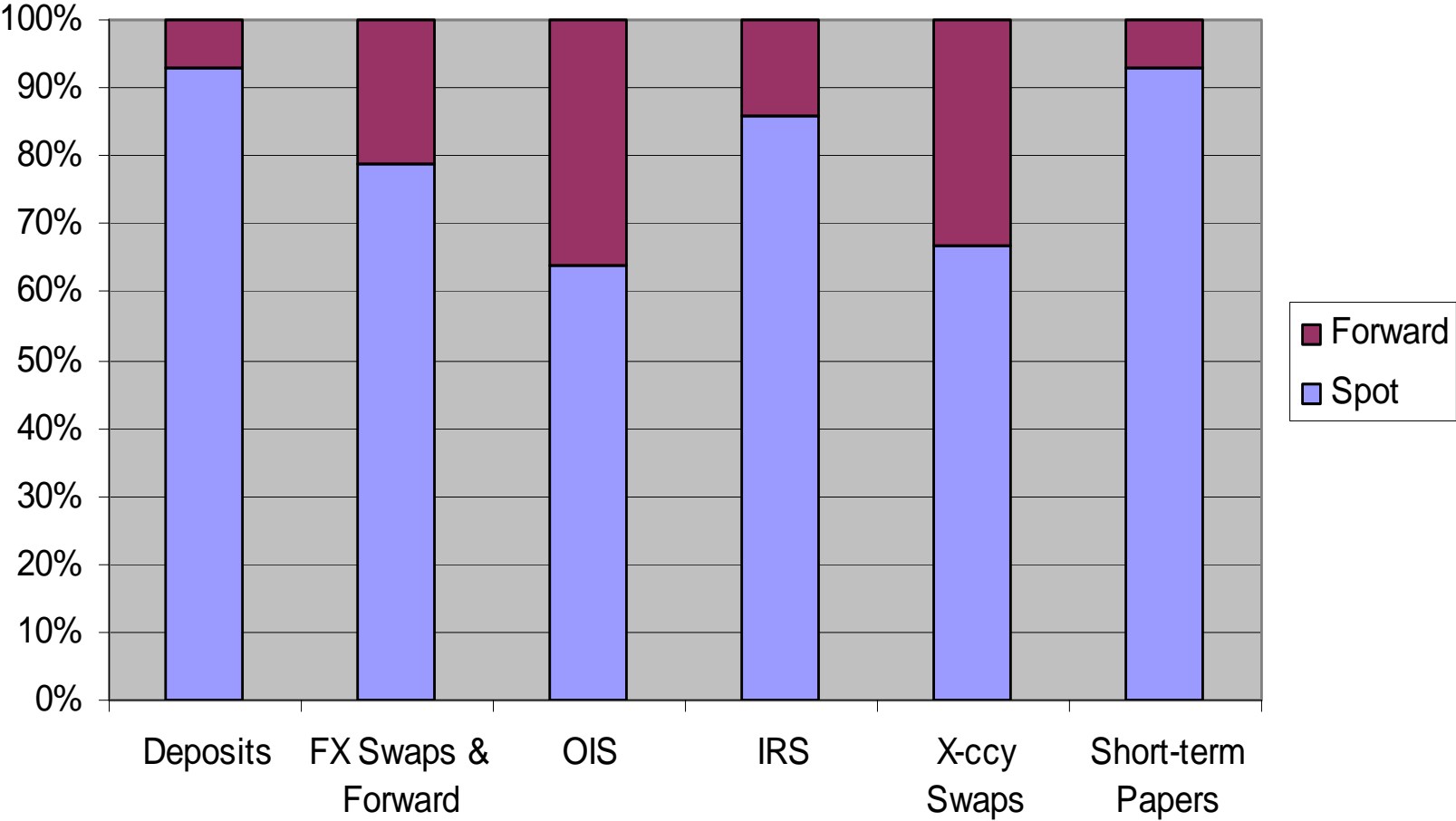
Counterparty split by product



Method of trade execution



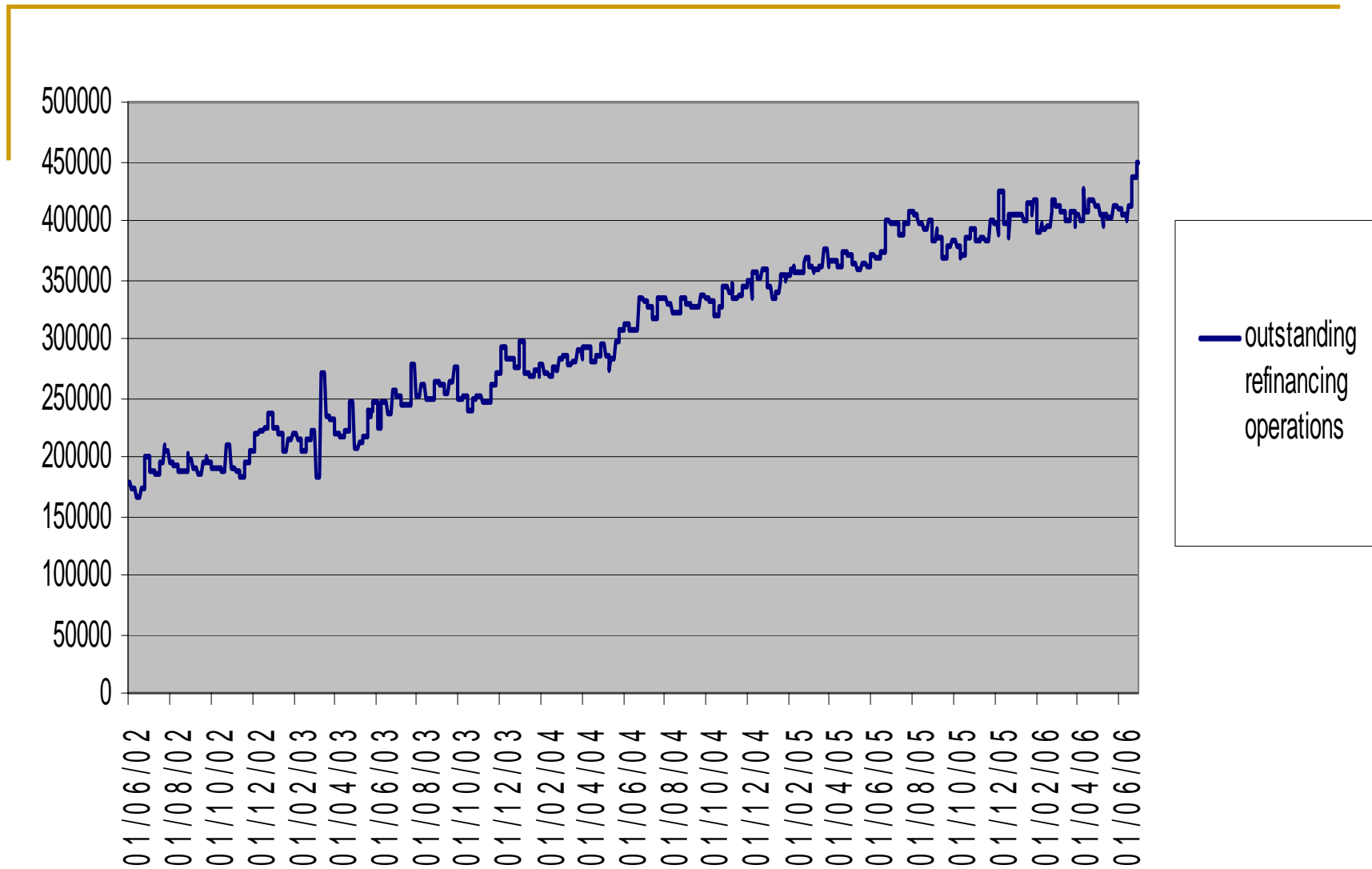
Value date for trade settlement.



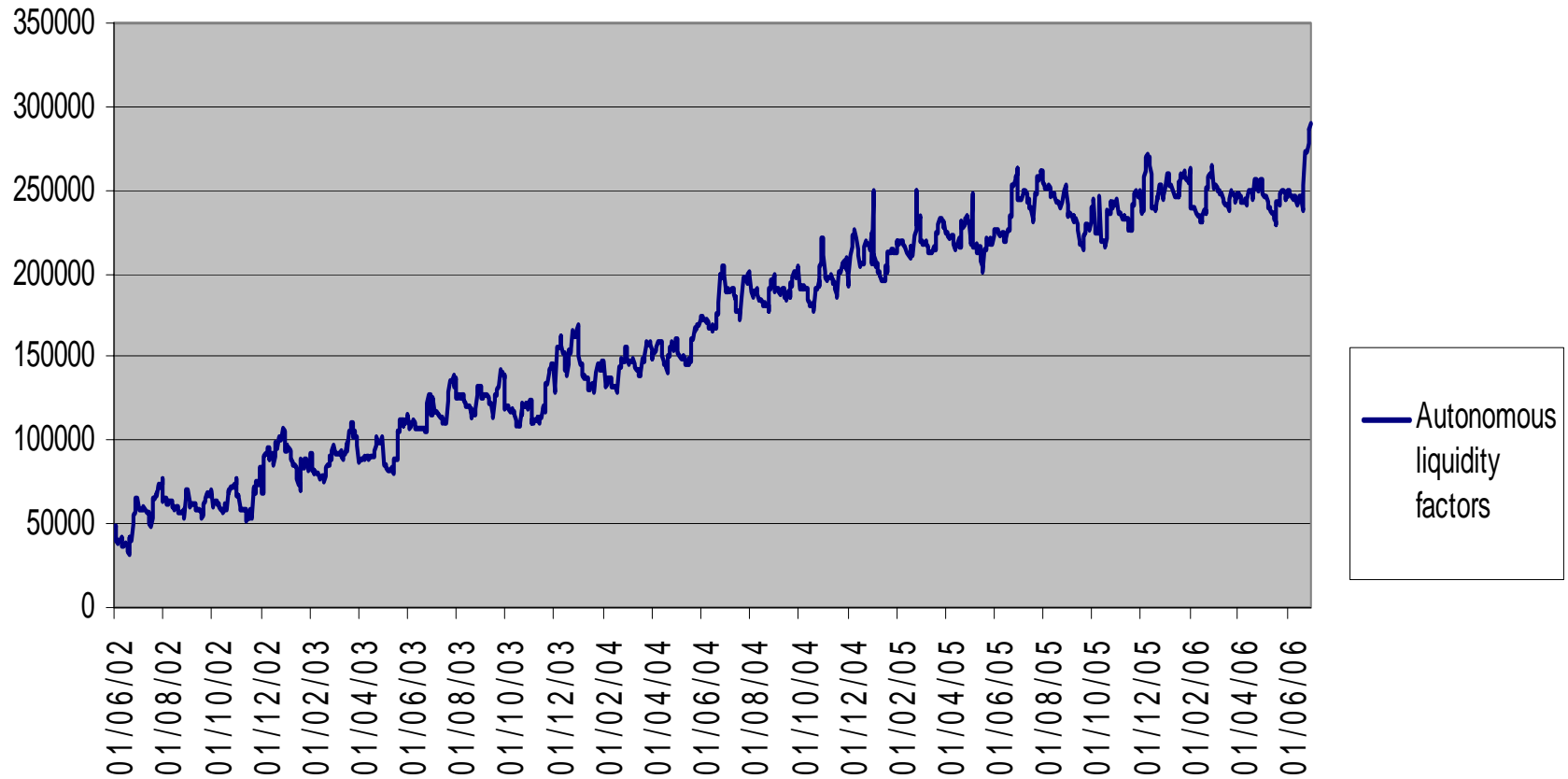
PART THREE

ANNEXES

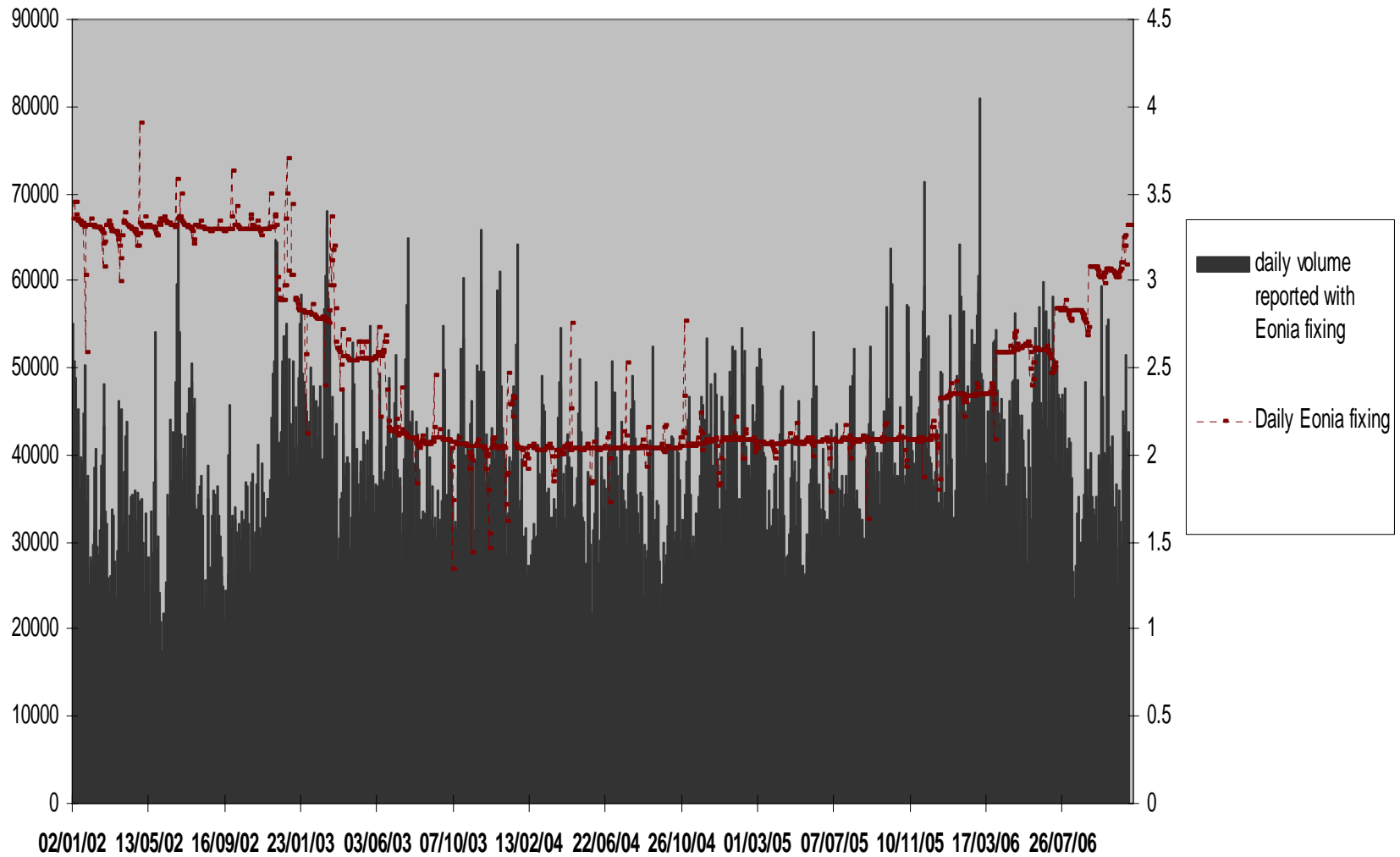
Outstanding refinancing operations (MRO,LTRO& FT) have grown from 200bio on 30/6/2002 to 448.5 bio on 30/6/2006



Autonomous liquidity factors have grown from 66 bio on 30/6/2002 to 290 bio on 30/6/2006

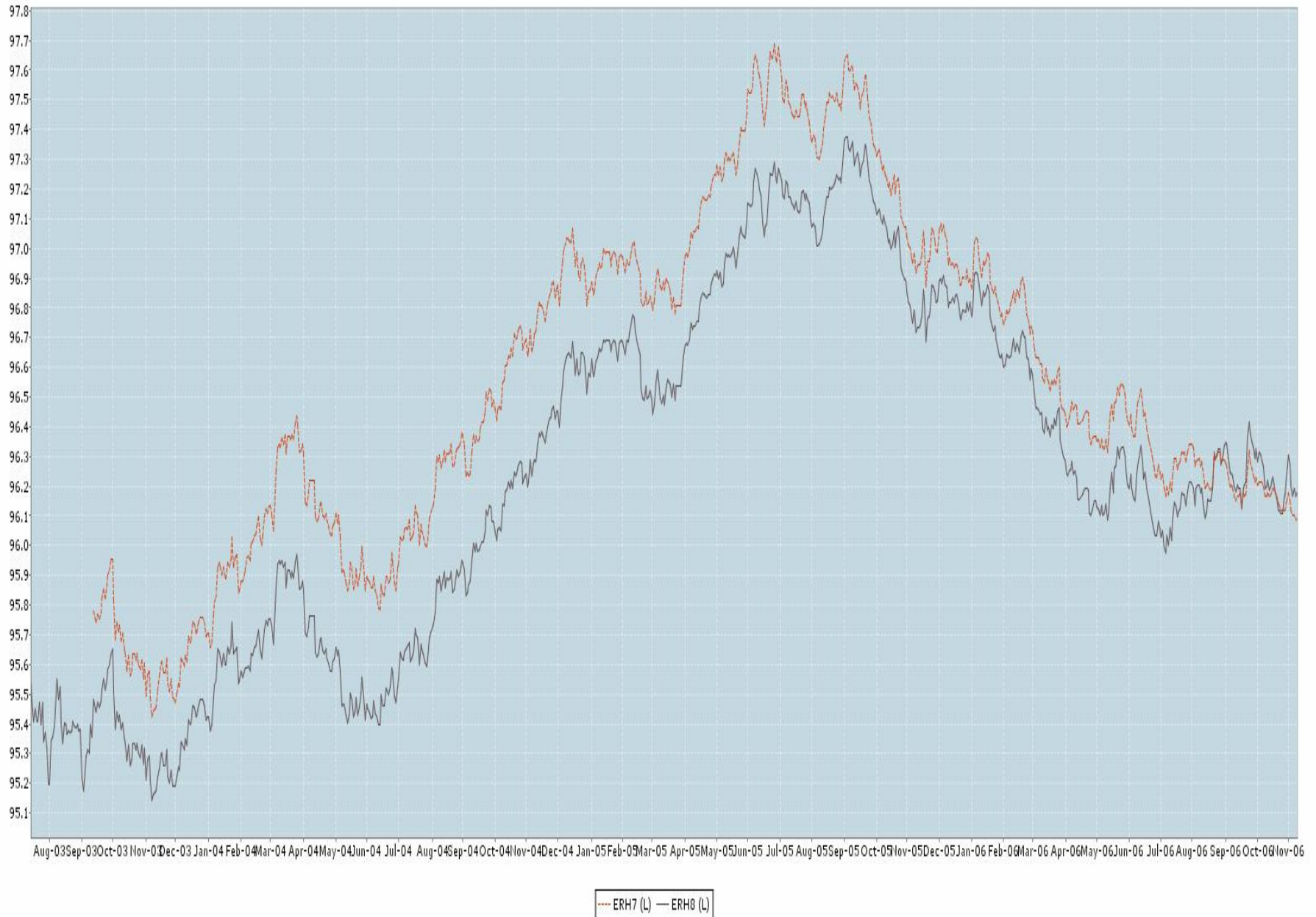


The volume reported at the daily Eonia fixing has remained relatively steady during all interest rate cycles.



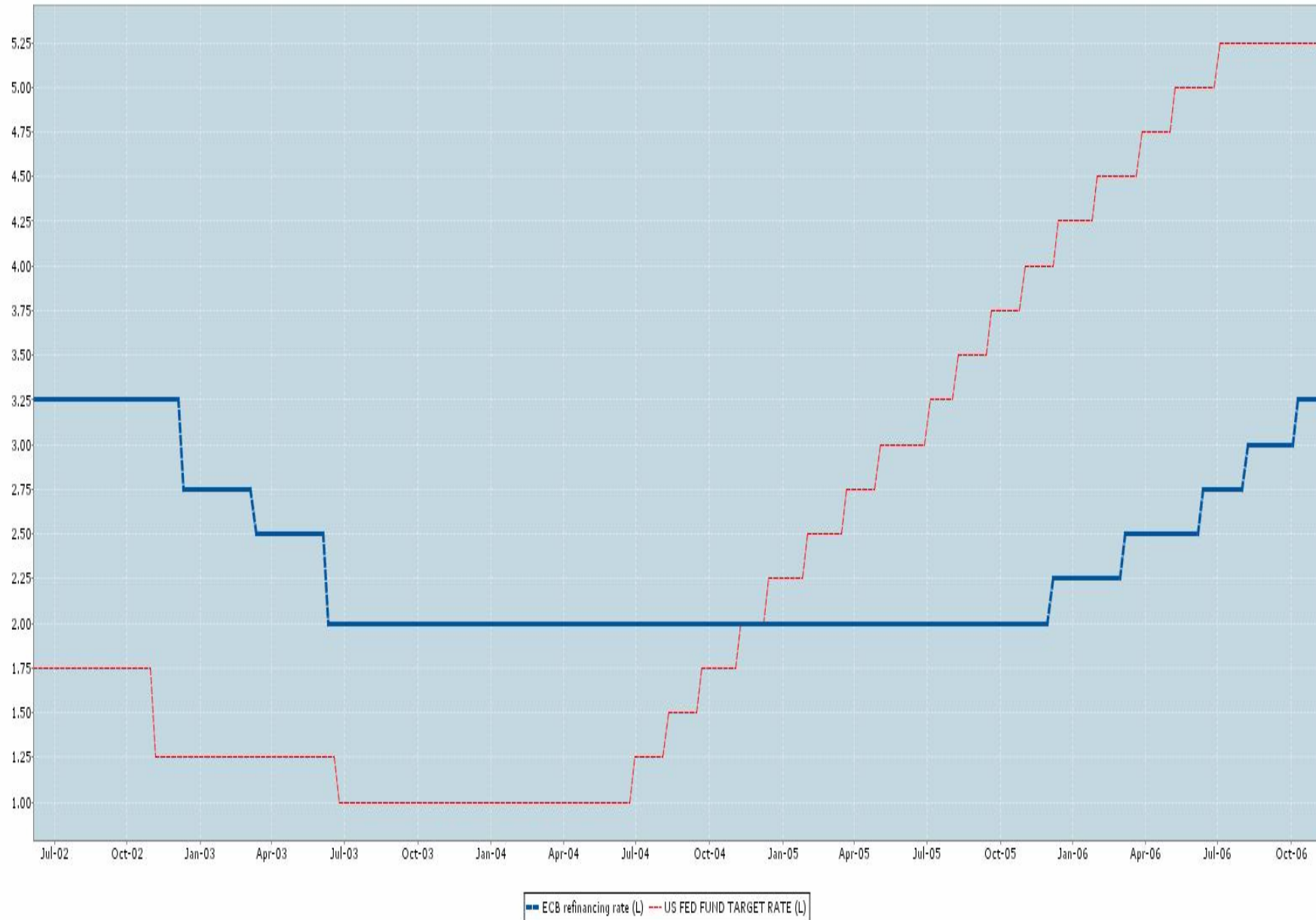
MAR 07 / MAR 08 Euribor has now inverted

15 Jul 03 to 9 Nov 06



ECB minimum bid rate & FED funds rate

15 Jul 03 to 9 Nov 06



EUR/USD

3 Jun 02 to 9 Nov 06



EUR/JPY

3 Jun 02 to 9 Nov 06

