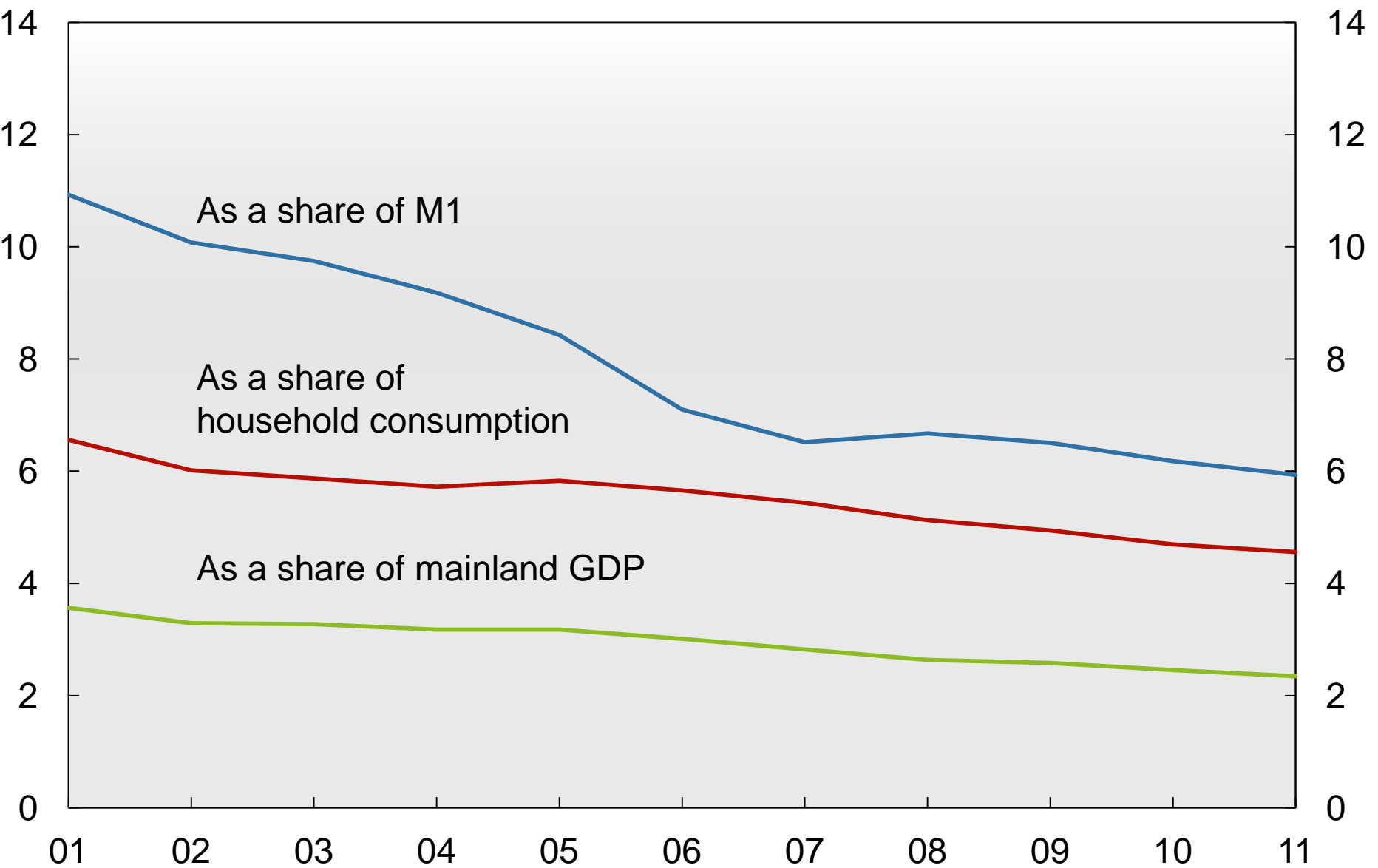


Annual Report on Payment Systems 2011

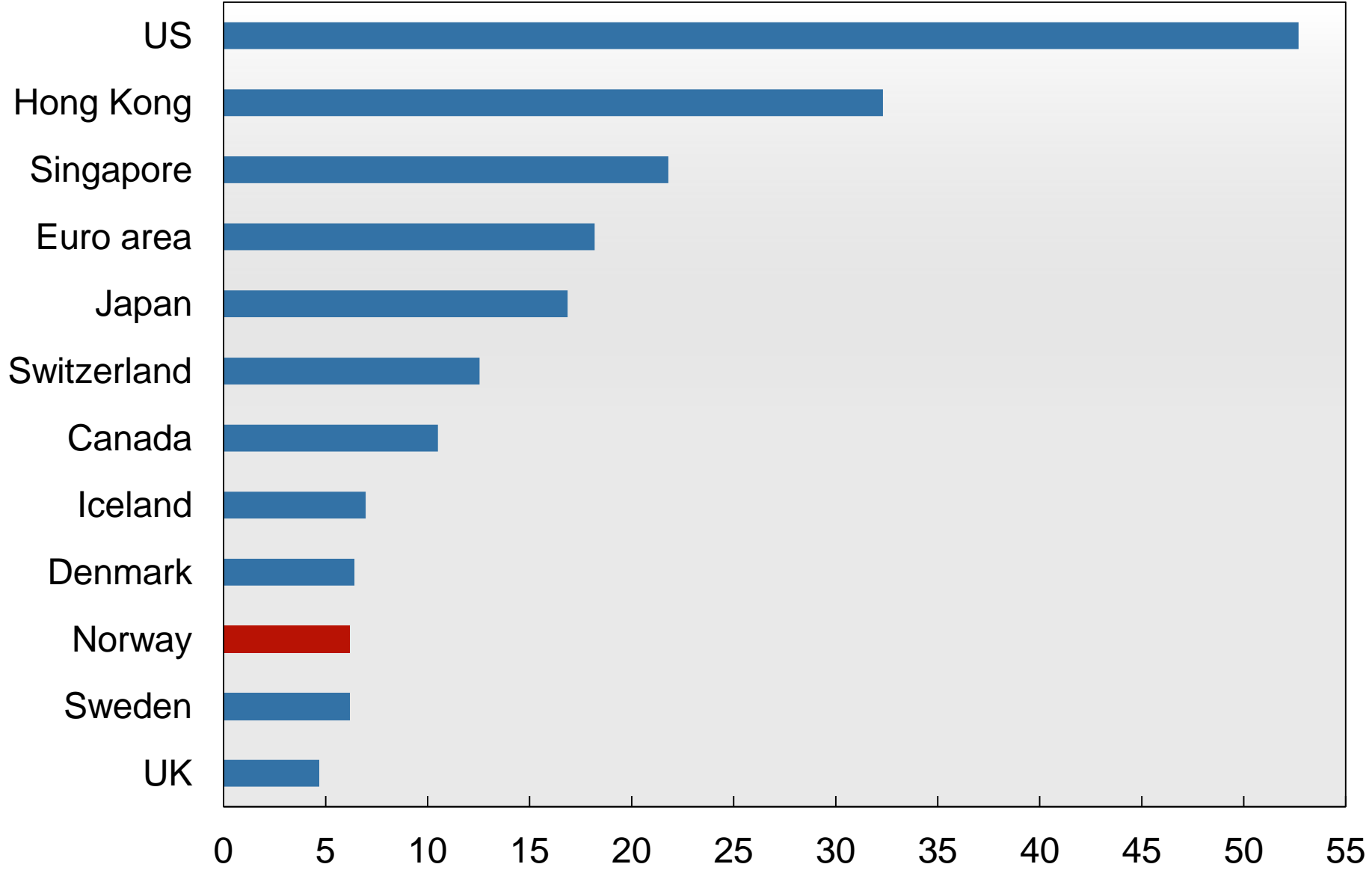
Part one

Chart 1.1 Value of cash in circulation as a share of means of payment (M1), household consumption and mainland GDP. Percent. 2001 – 2011



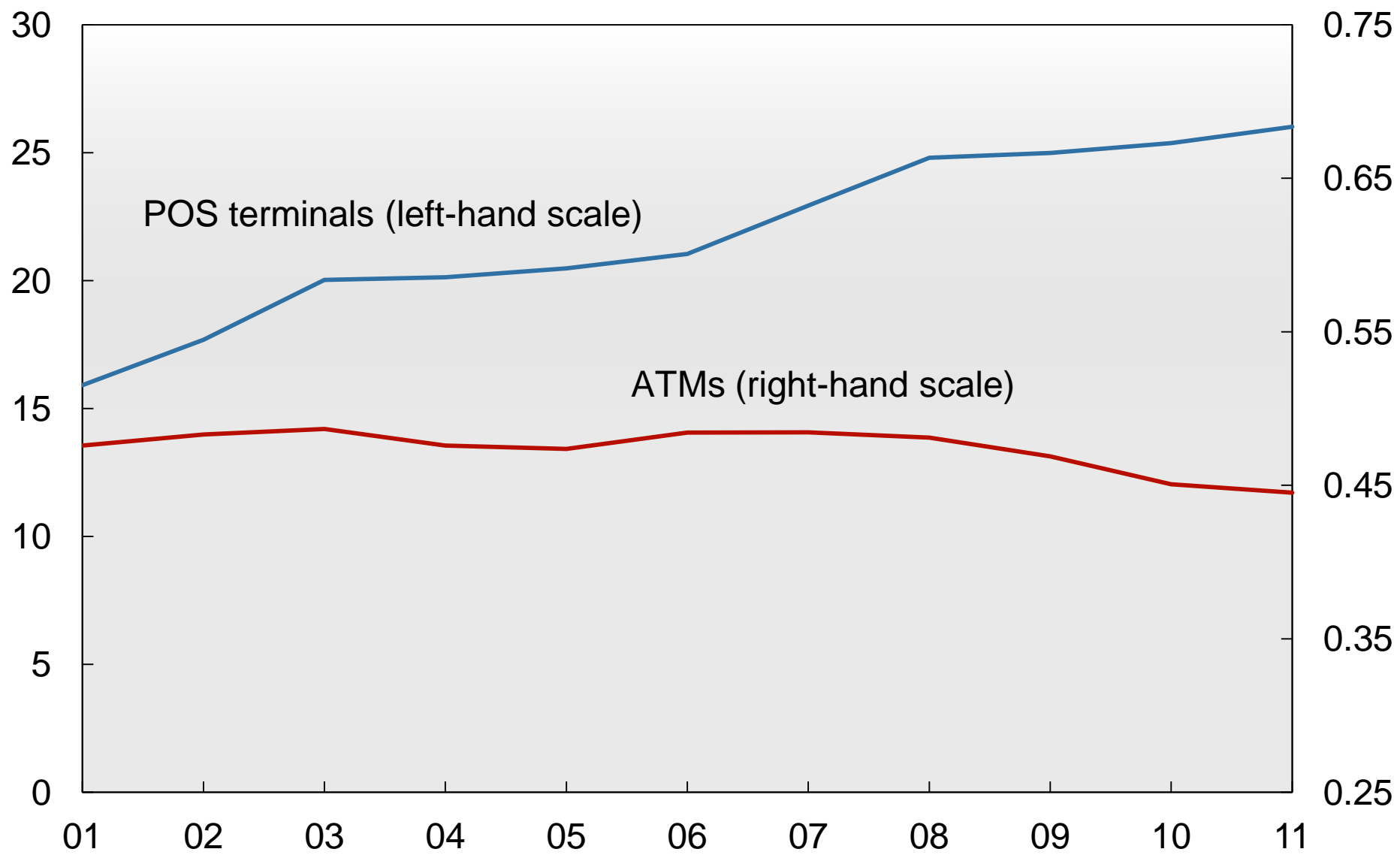
Sources: Statistics Norway and Norges Bank

Chart 1.2 Cash as a share of means of payment (M1) in selected countries.
Percent. 2010



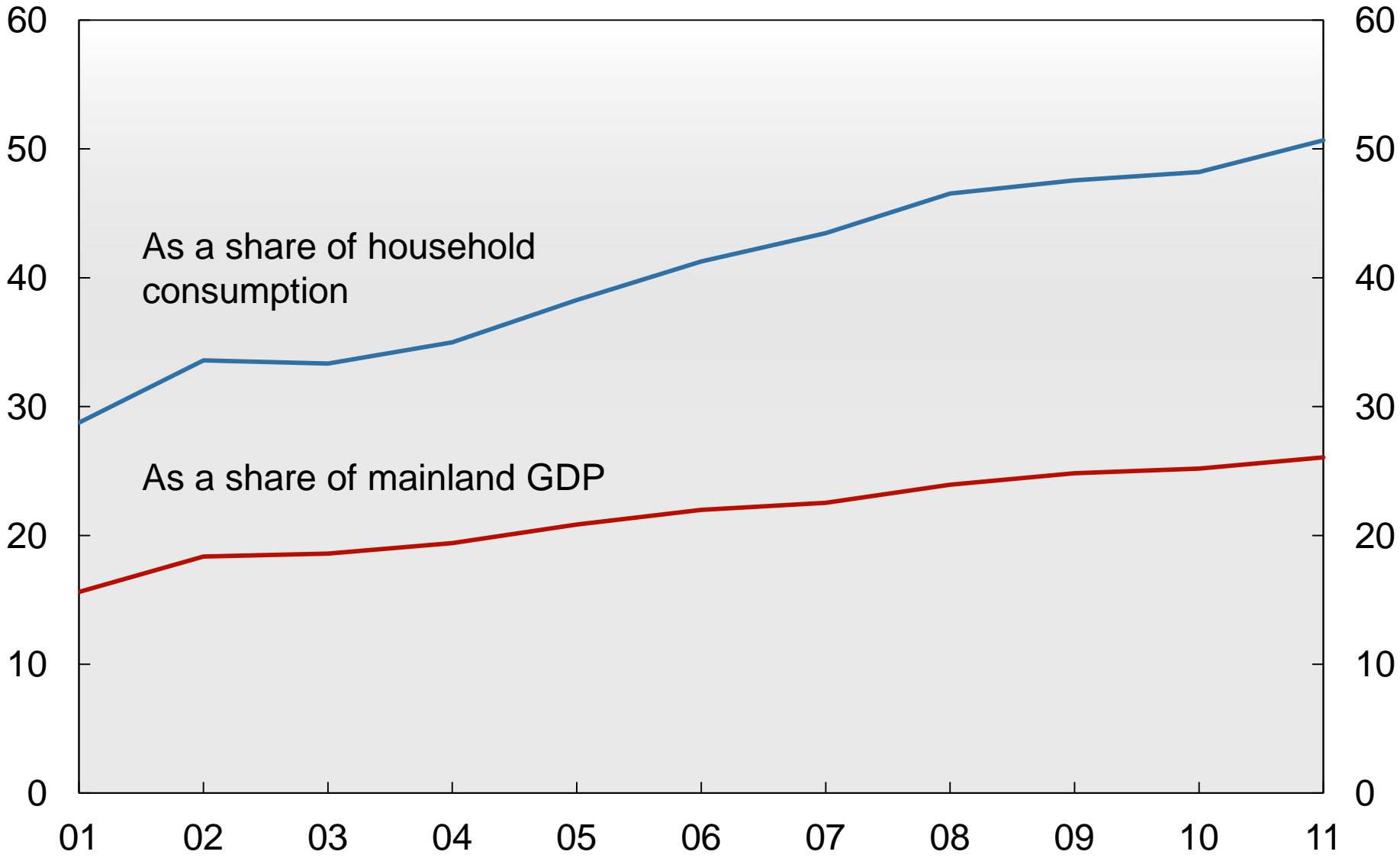
Sources: Norges Bank, ECB, BIS/CPSS and Central Bank of Iceland

Chart 1.3 Number of point-of-sale (POS) terminals and ATMs.
Per thousand inhabitants. 2001 – 2011



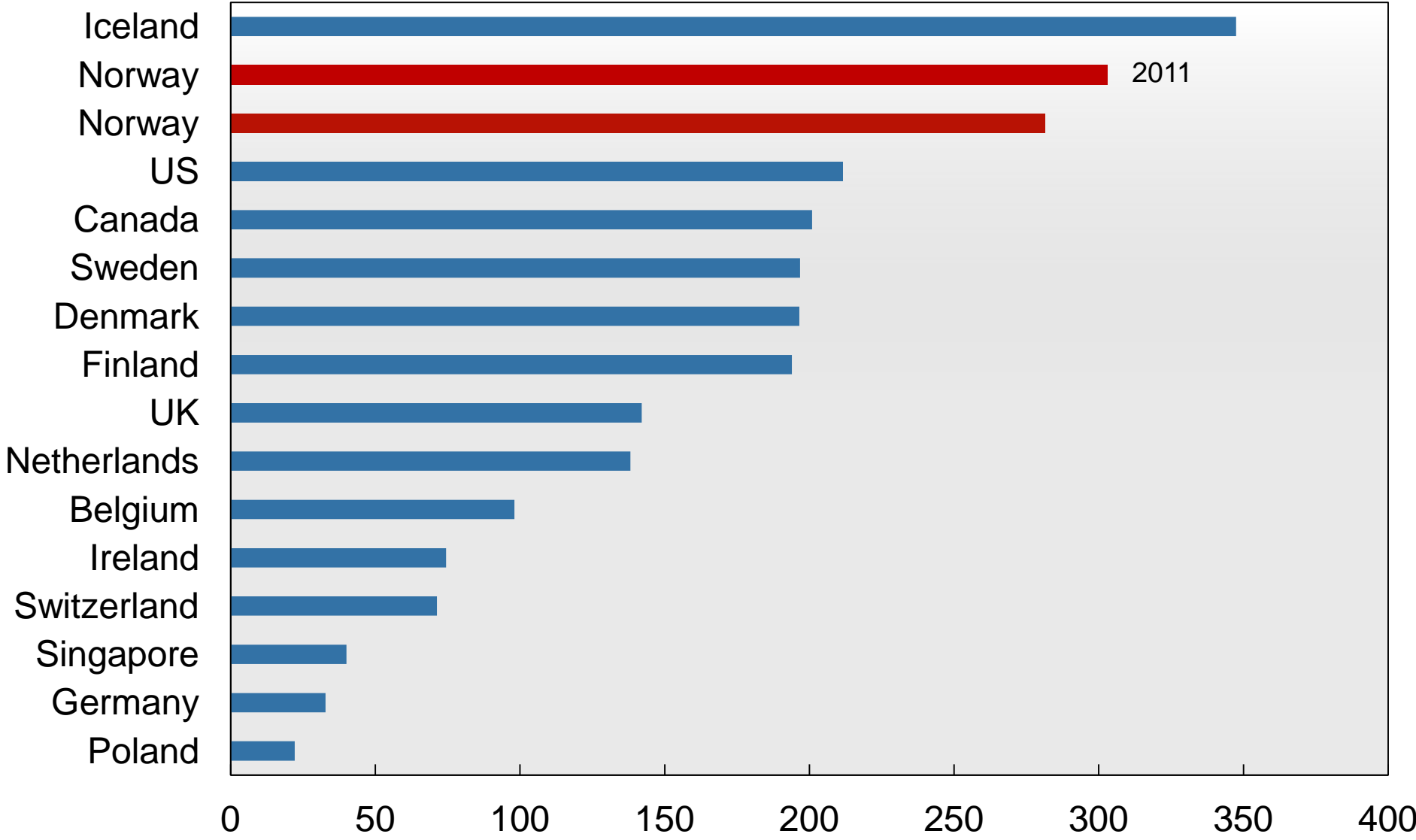
Source: Norges Bank

Chart 1.4 Value of goods purchases using payment cards. As a share of household consumption and mainland GDP. Percent. 2001 – 2011



Source: Norges Bank

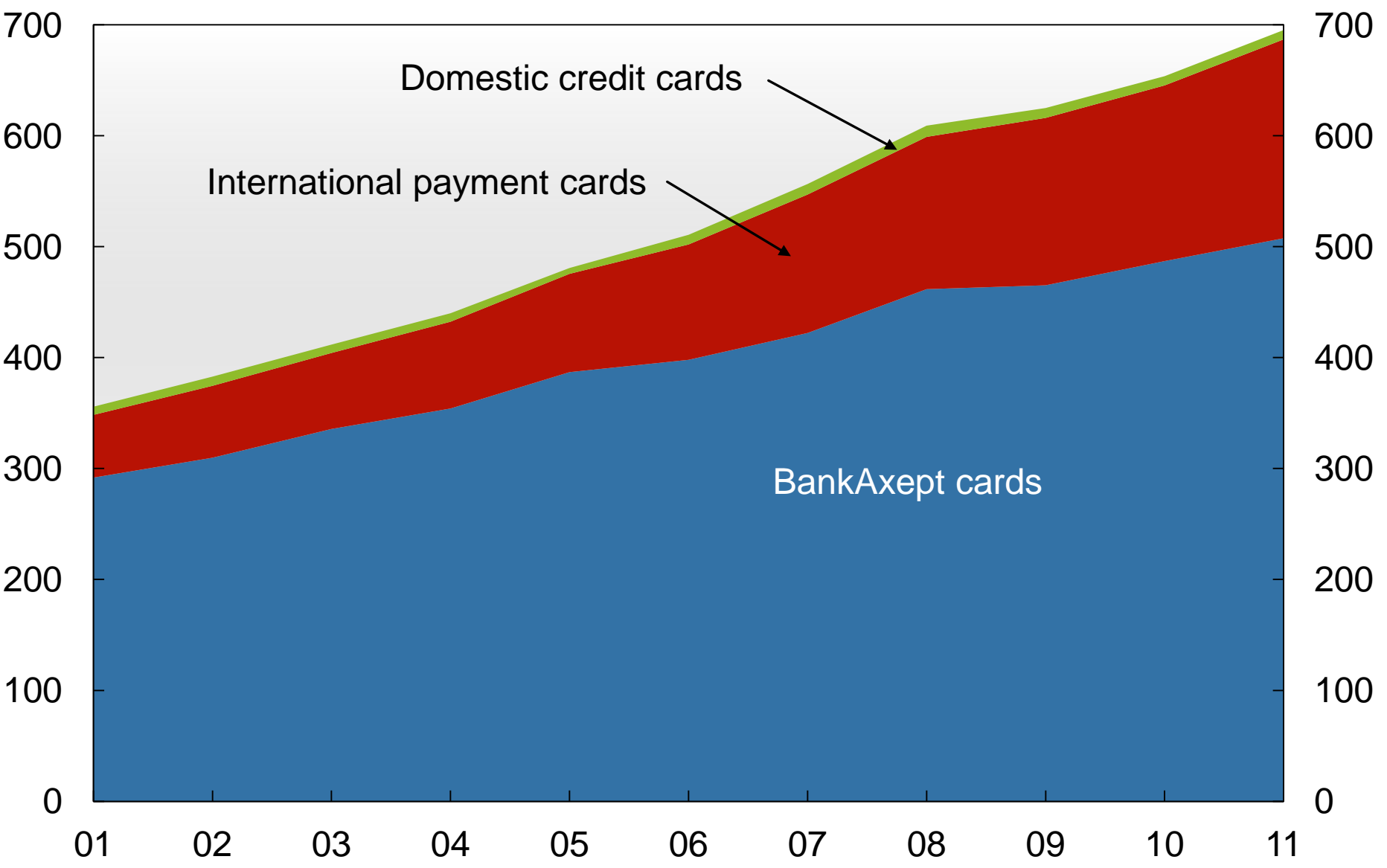
Chart 1.5 Number of card transactions per inhabitant. Payments and cash withdrawals. 2010¹



1) For Norway, numbers for 2011 are also included

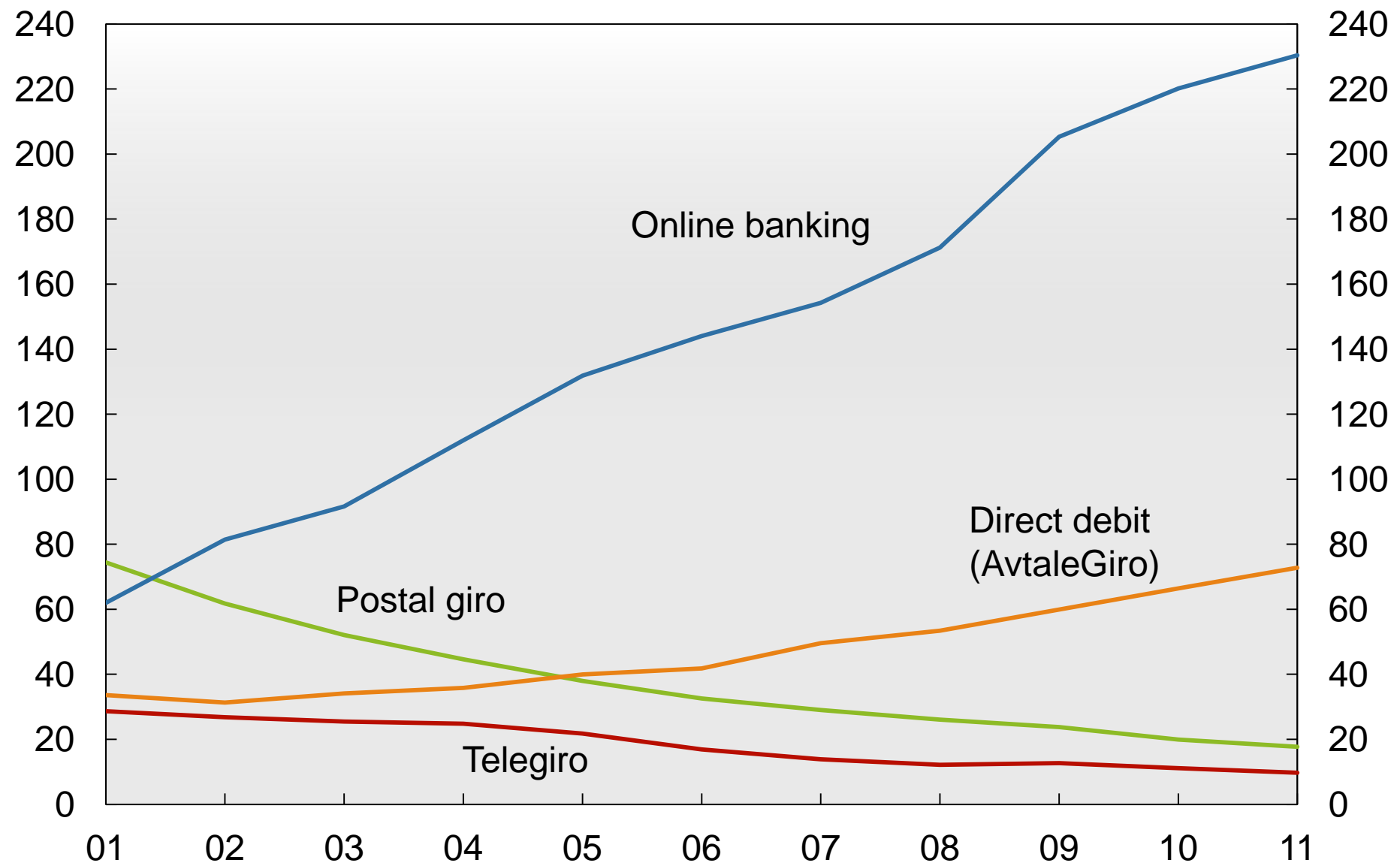
Sources: Norges Bank, ECB, BIS/CPSS and Central Bank of Iceland

Chart 1.6 Use of payment cards. In billions of NOK.
2001 – 2011



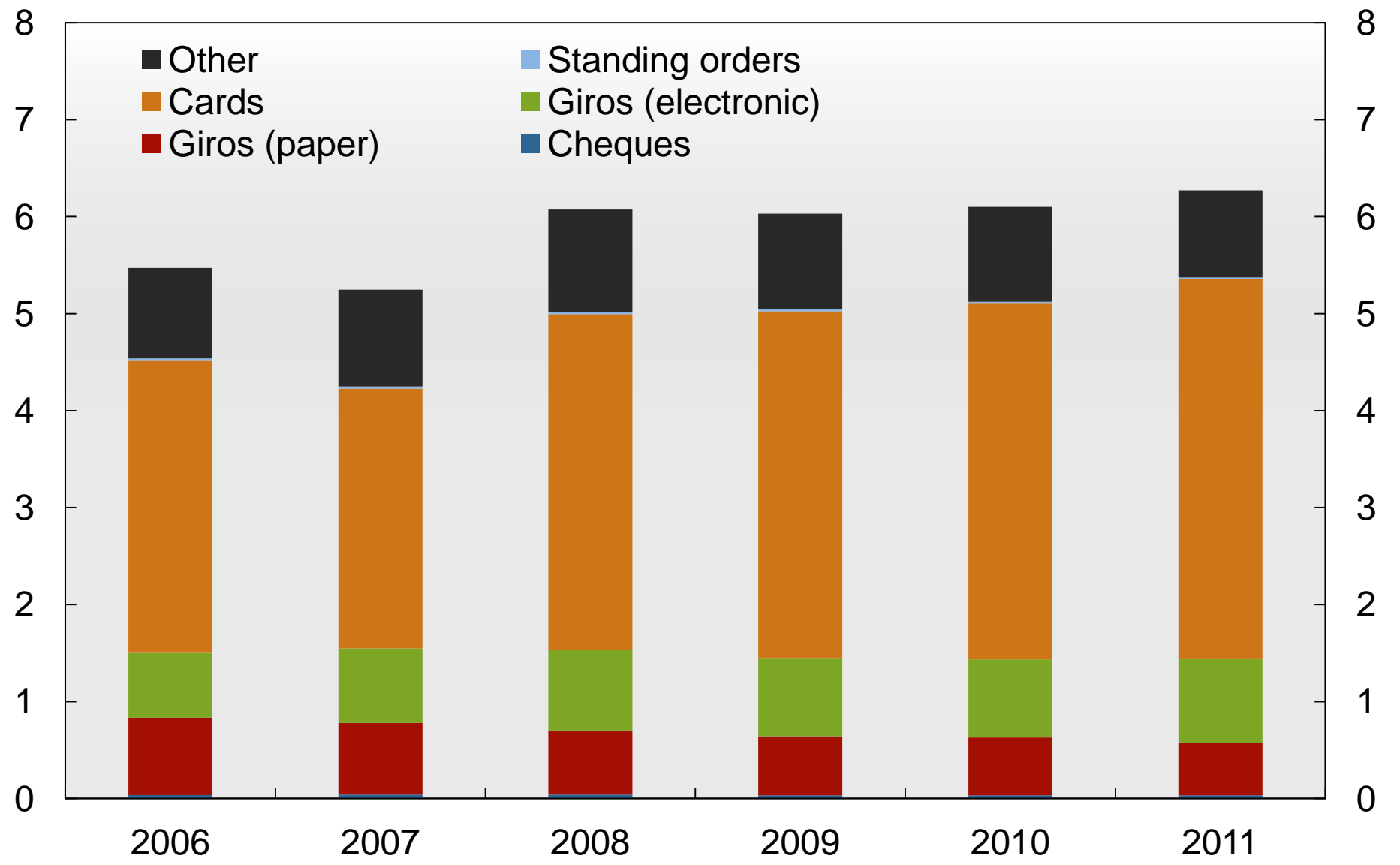
Source: Norges Bank

Chart 1.7 Credit and direct debit transfers (retail customers). Millions of transactions. 2001 – 2011



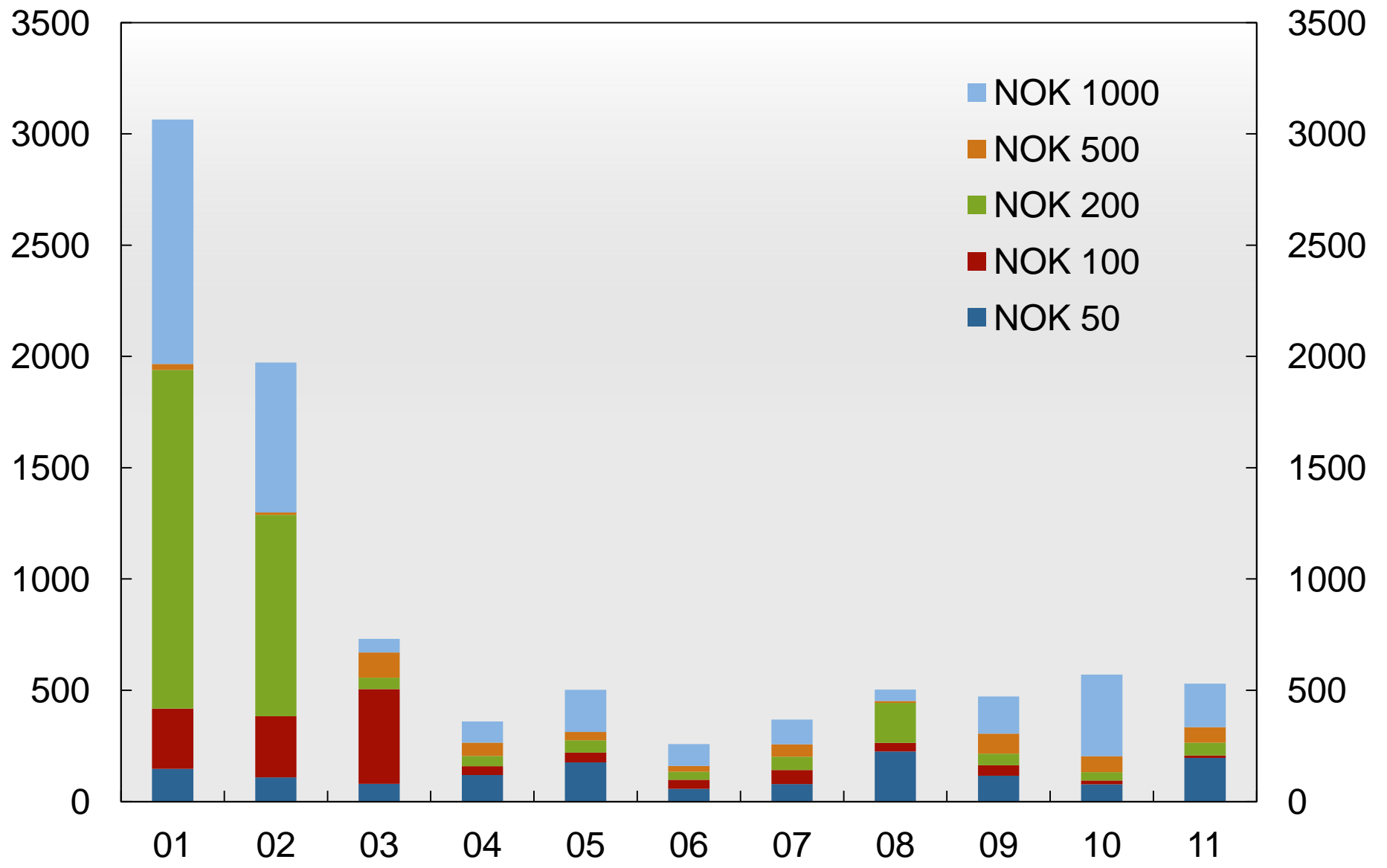
Source: Norges Bank

Chart 1.8 Banks' income from payment services.
 In billions of NOK. 2006 – 2011



Source: Norges Bank

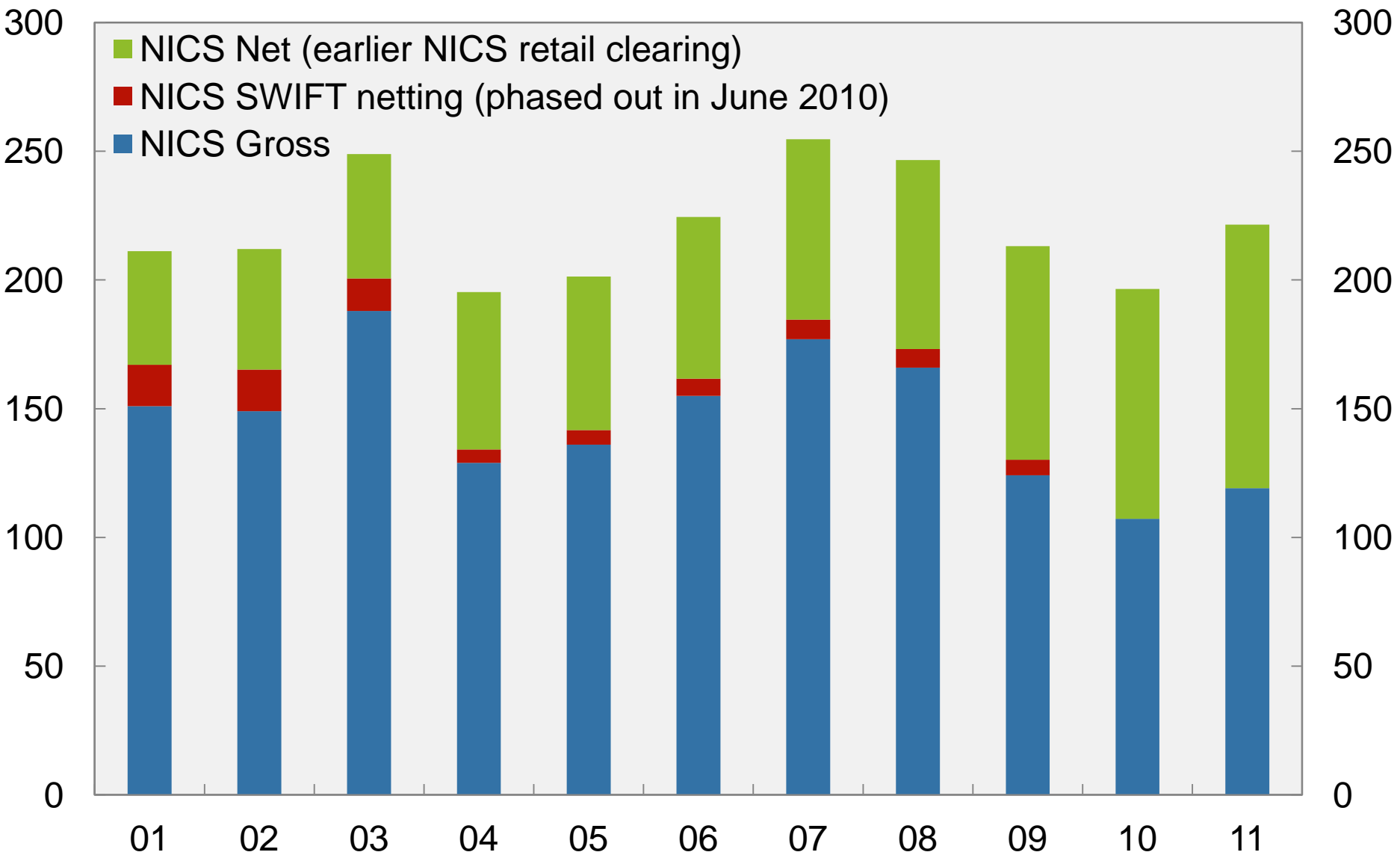
Chart 1.9 Number of seized counterfeit notes.
2001 – 2011



Source: Kripos (National Criminal Investigation Service)

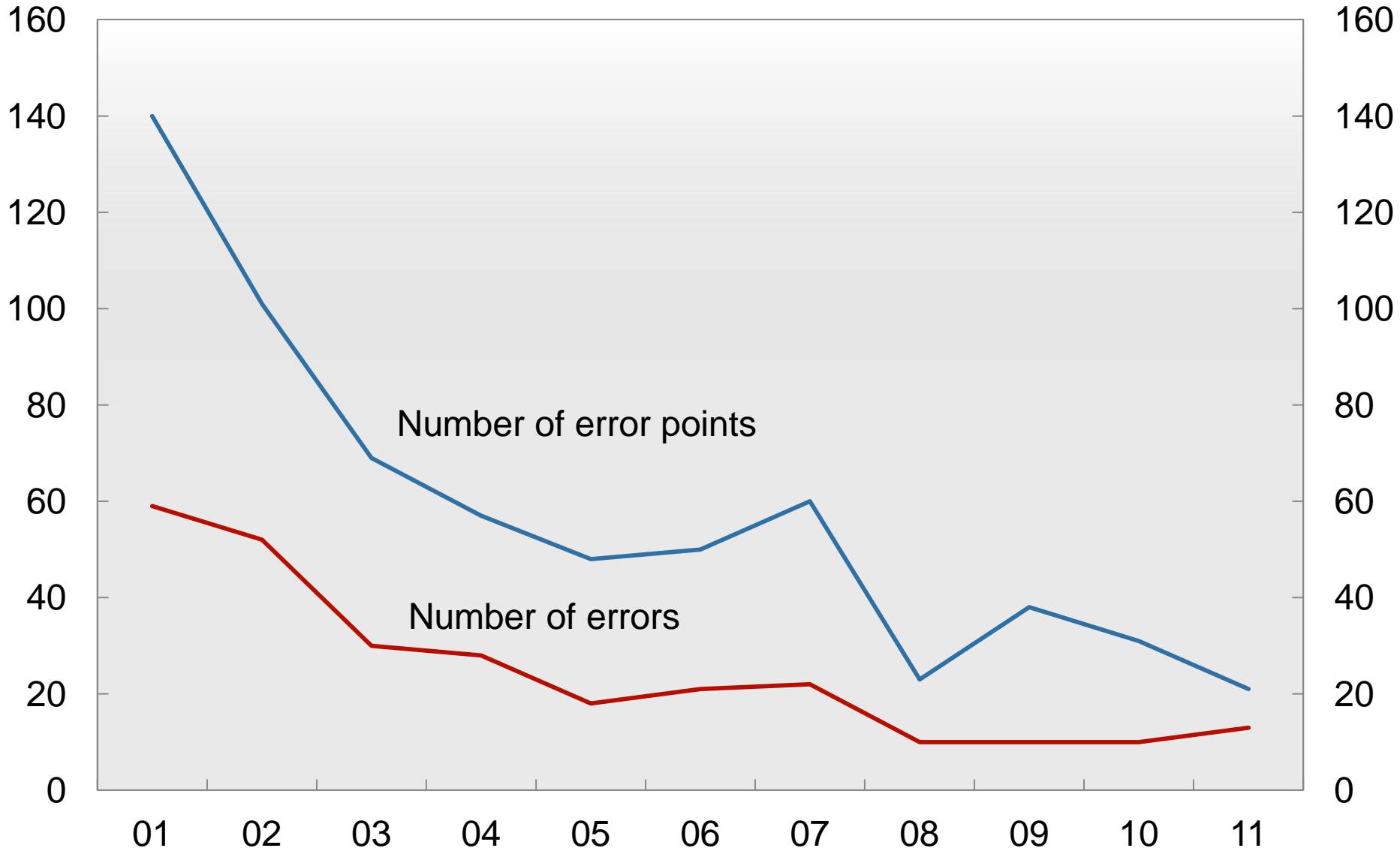
Part two

Chart 2.1 Daily average turnover in NICS.
In billions of NOK. 2001 – 2011



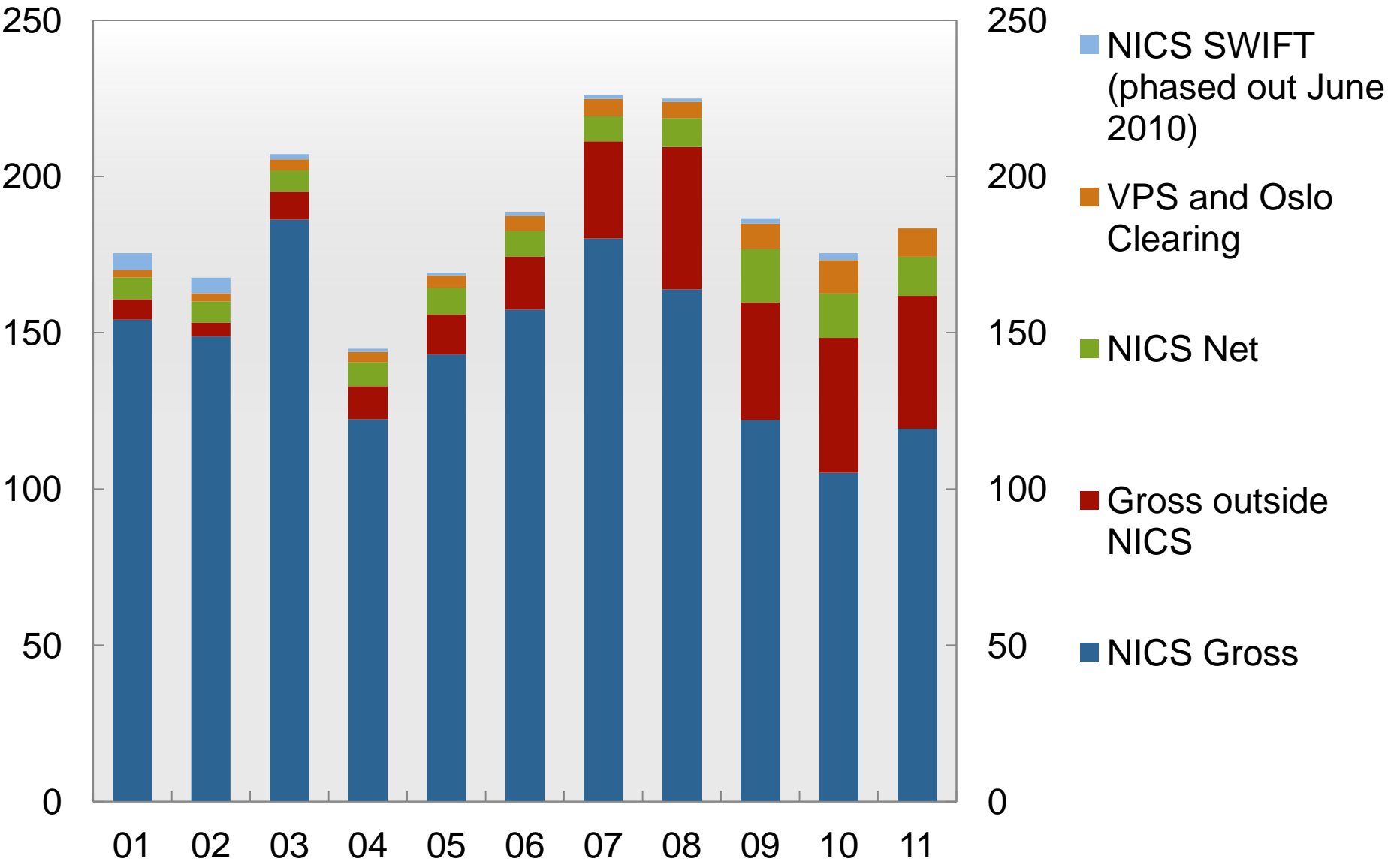
Source: NICS Operations Office

Chart 2.2 Disruptions in NICS operations. Number of errors and error points. 2001 – 2011



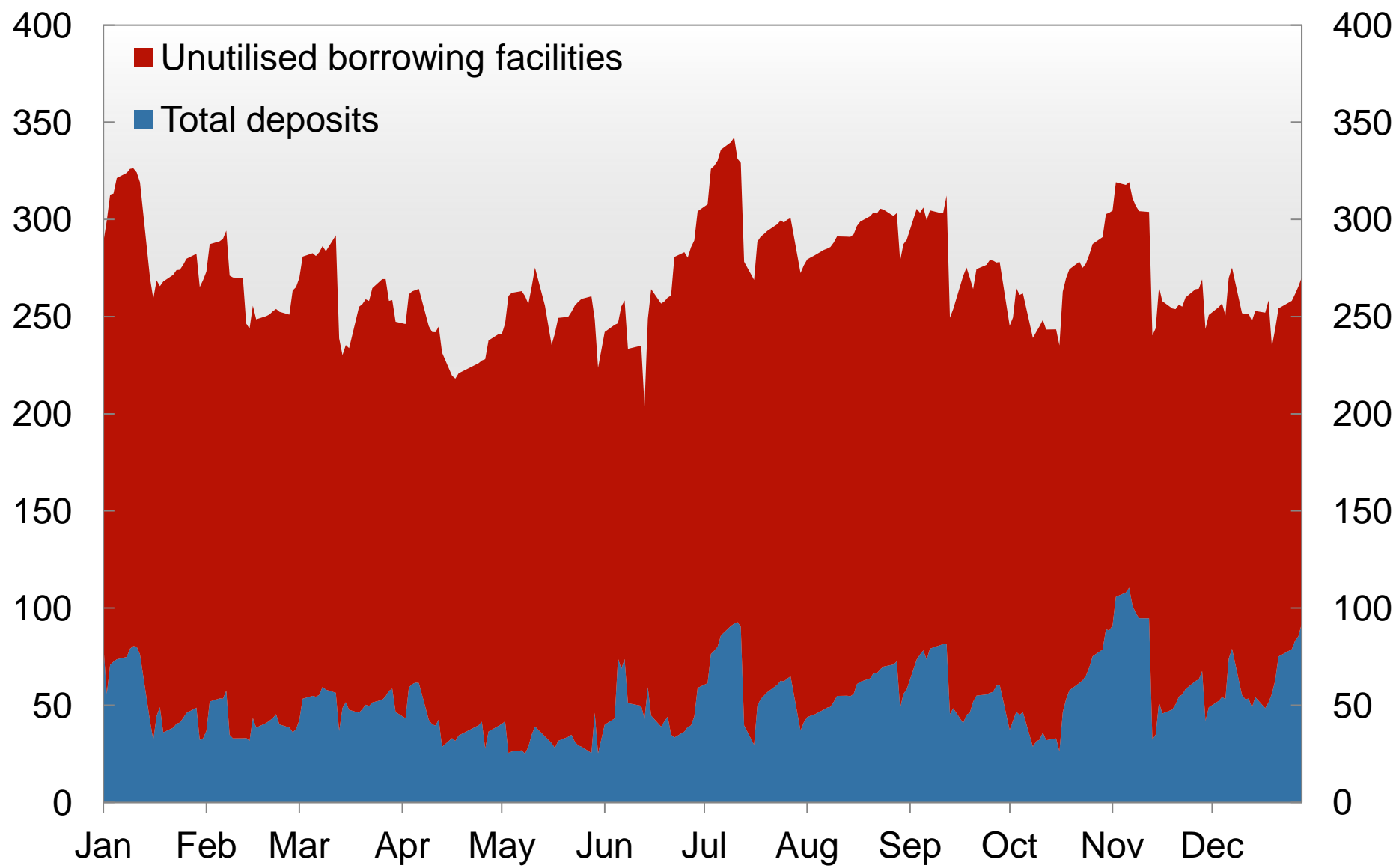
Source: NICS Operations Office

Chart 2.3 Average daily turnover in NBO by settlement.
 In billions of NOK. 2001 – 2011



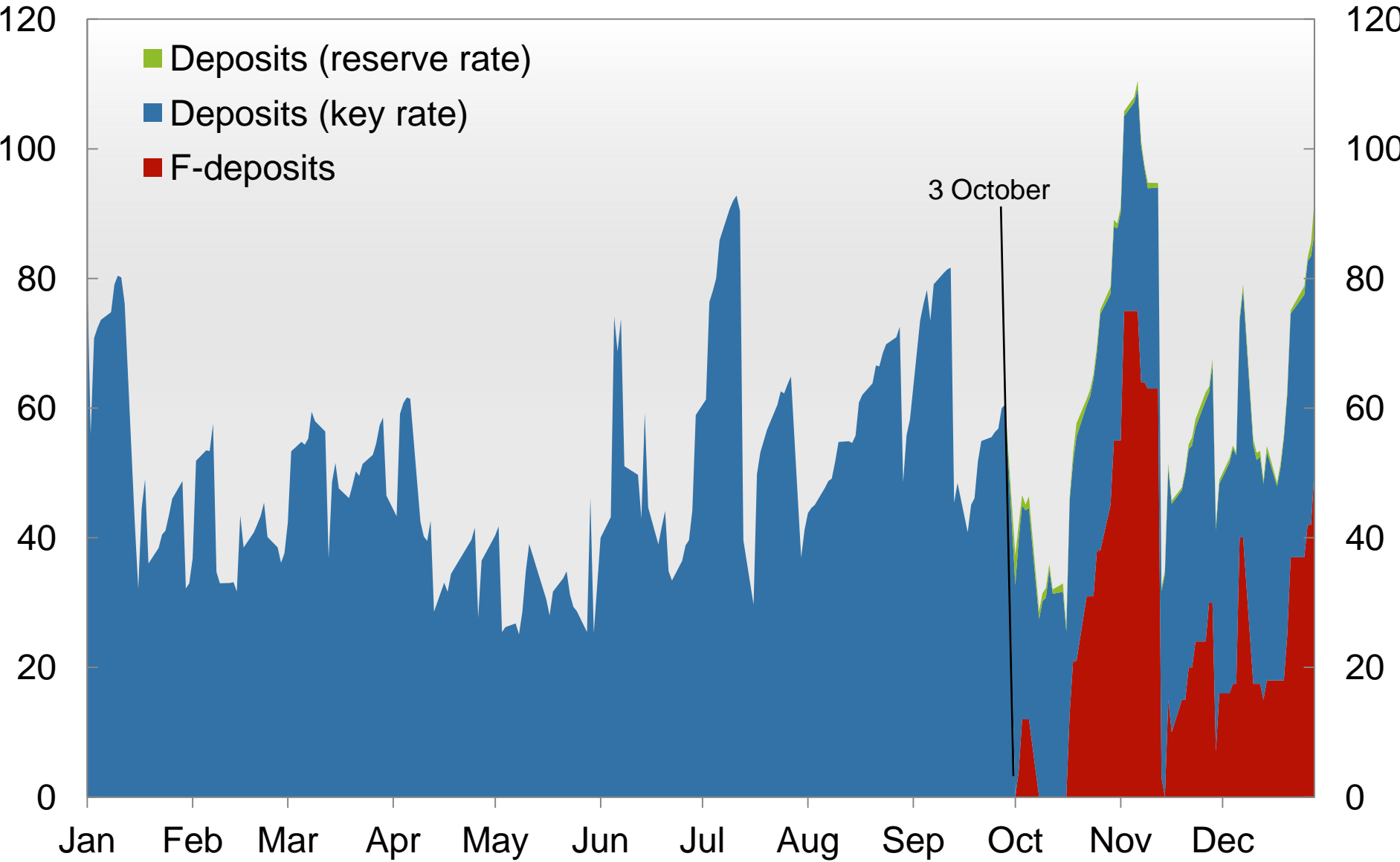
Source: Norges Bank

Chart 2.4 Banks' total deposits and unutilised borrowing facilities at Norges Bank (end of day). In billions of NOK. 2011



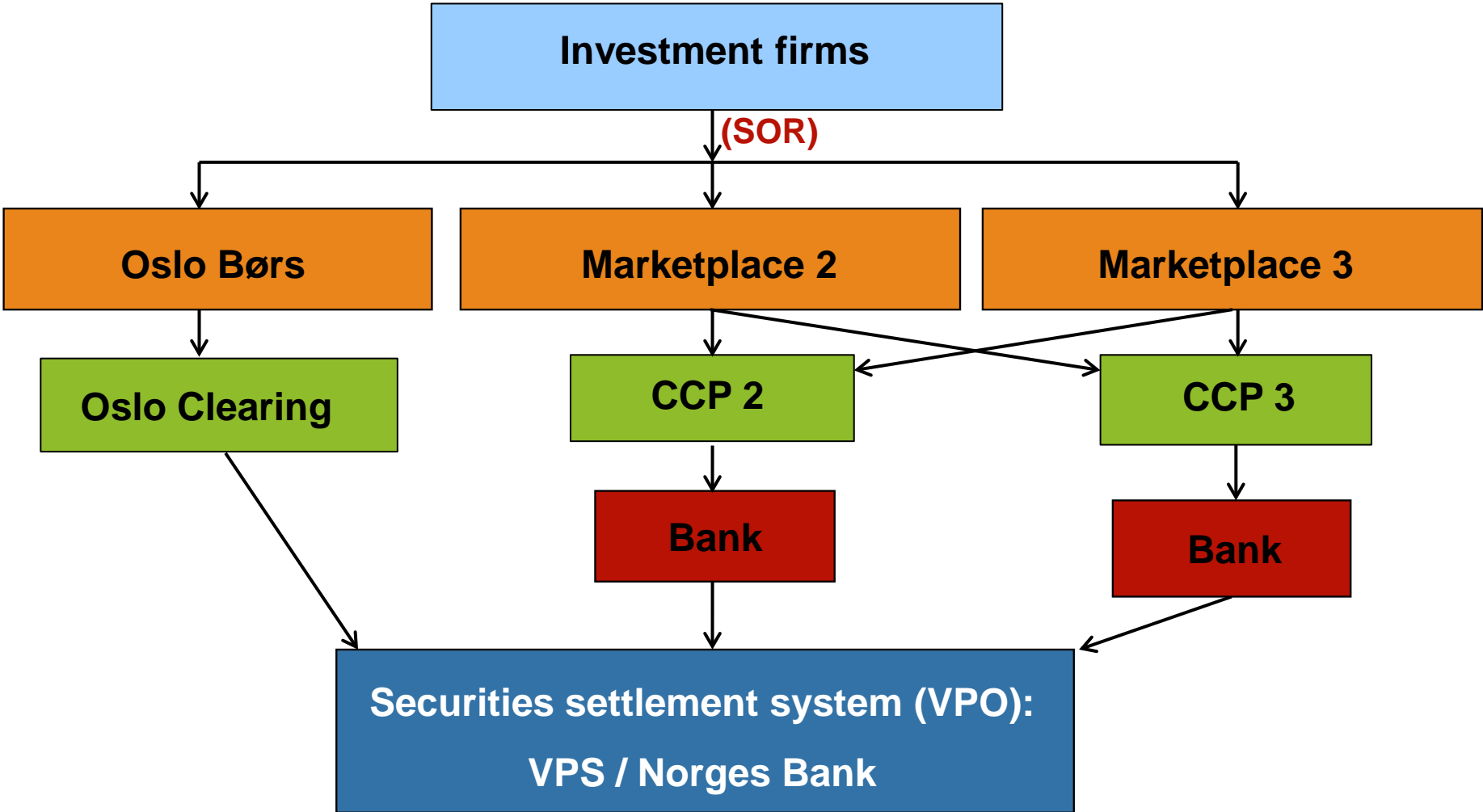
Source: Norges Bank

Chart 2.5 Banks' total deposits at Norges Bank. Composition before and after the new liquidity management (quota-based) system 3 October. In billions of NOK. 2011



Source: Norges Bank

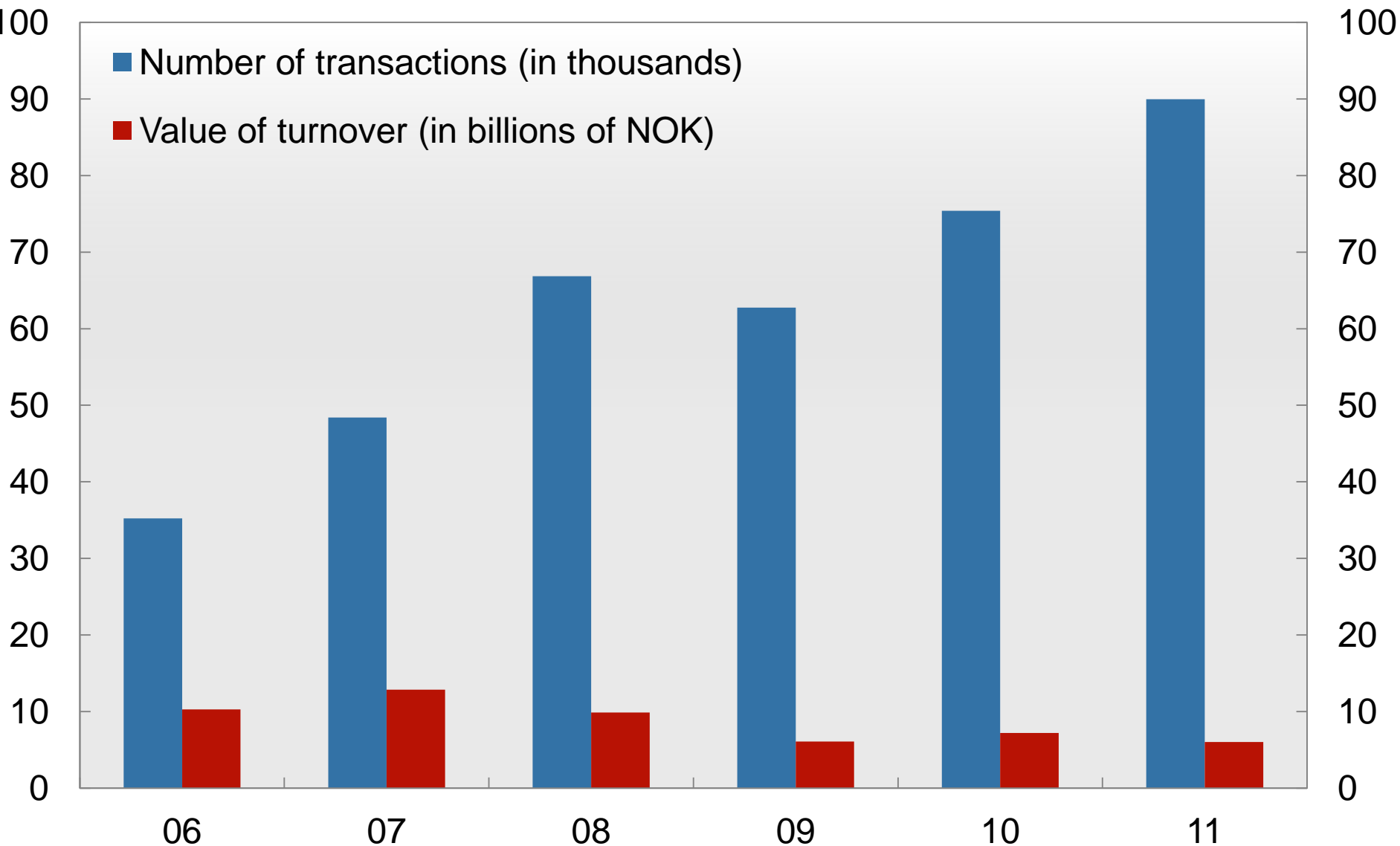
Chart 2.6 Equities – trade and settlement in NOK at different marketplaces¹



1) The chart has been simplified for reasons of clarity

Source: Norges Bank

Chart 2.7 Number of transactions and value of turnover on Oslo Børs ¹⁾.
Daily average. 2006 – 2011

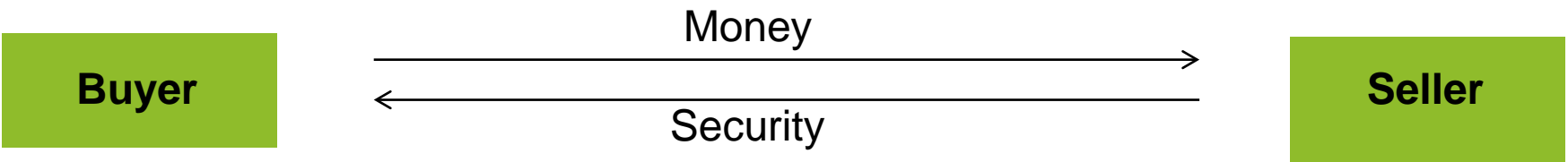


1) Equities

Source: Oslo Børs

Chart 2.8 Securities trading with central counterparty

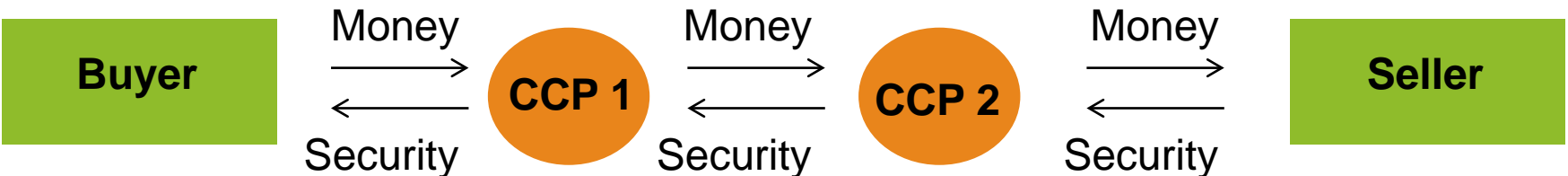
Without central counterparty



With central counterparty

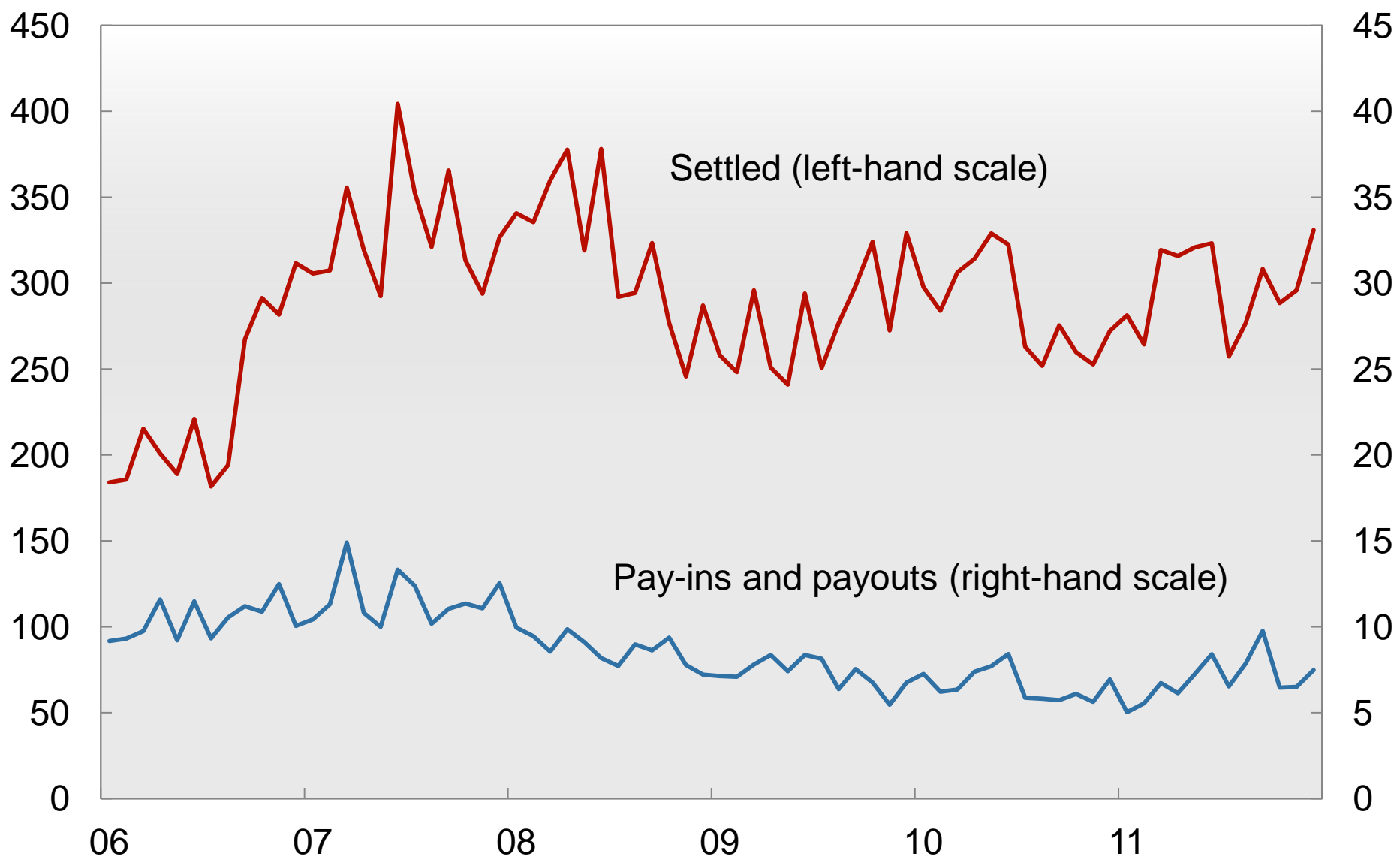


With several central counterparties



Source: Norges Bank

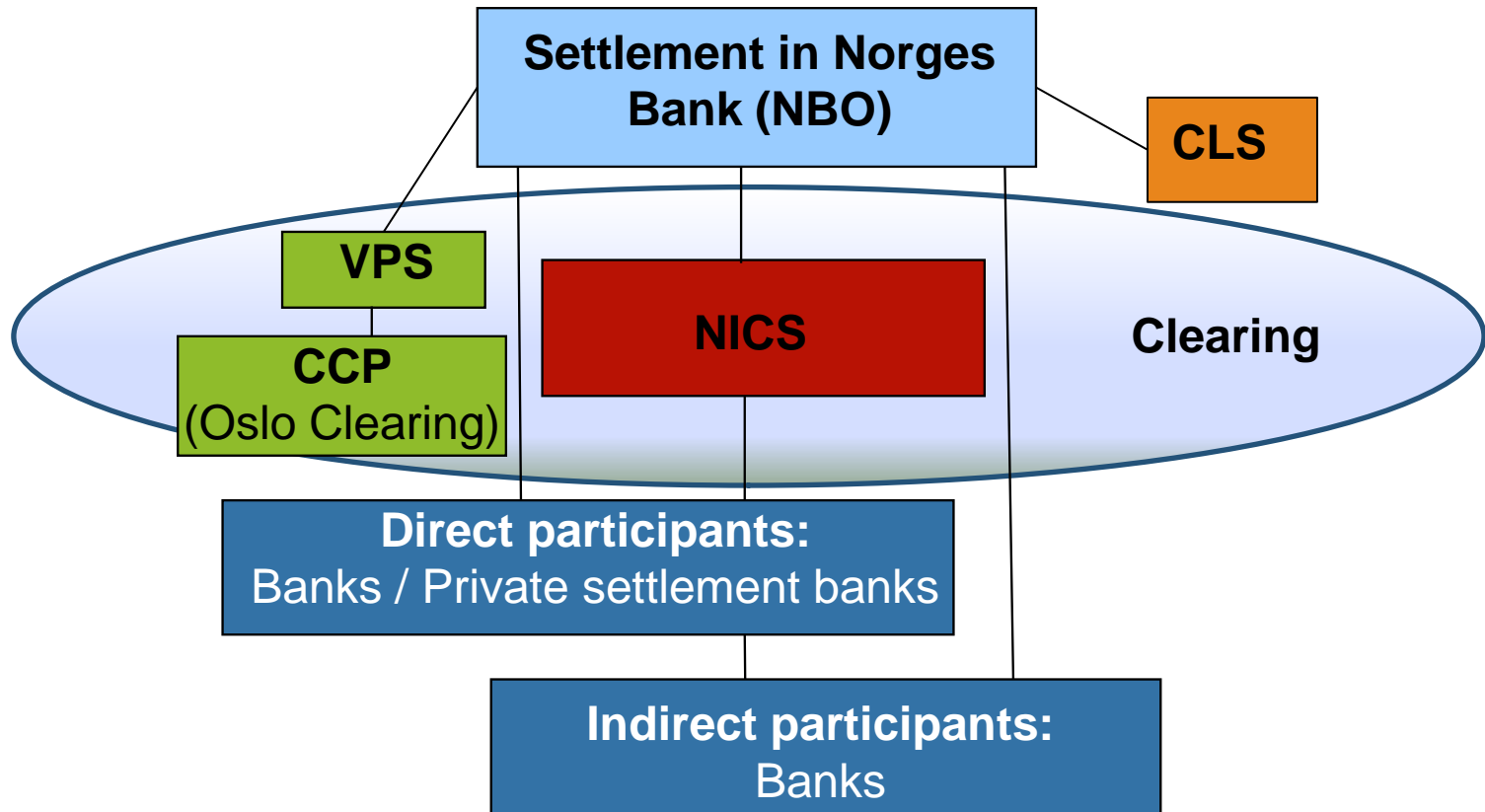
Chart 2.9 Value of daily NOK settlements in CLS, and pay-ins and payouts in NOK. Monthly average. In billions of NOK. 2006 – 2011



Sources: CLS and Norges Bank

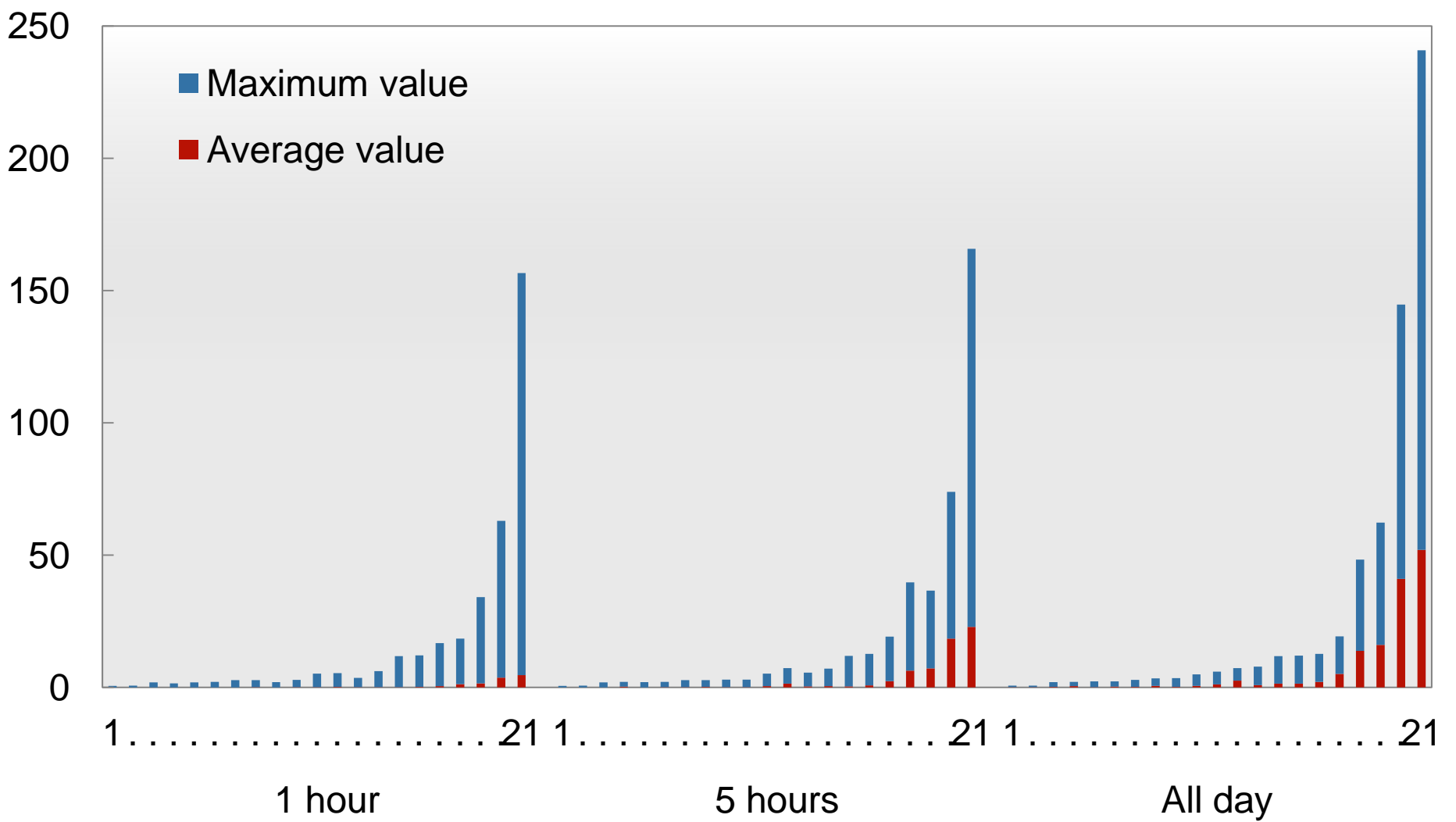
Boxes

Chart 1 Interbank systems in Norway¹



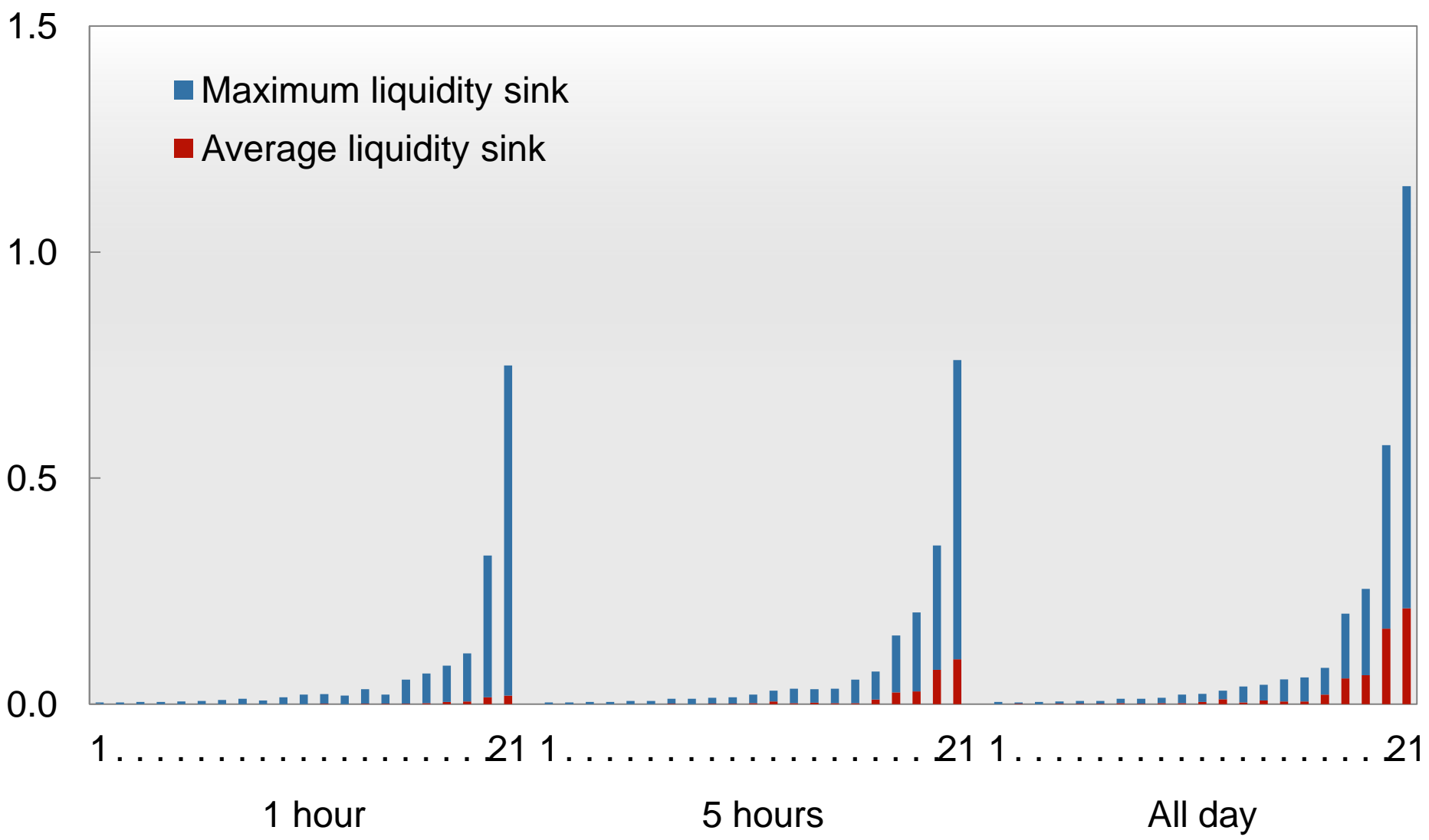
1) The chart has been simplified for reasons of clarity. CCP = Central counterparty

Chart 1 Value of payments directly affected by an operational problem¹⁾.
 In billions of NOK



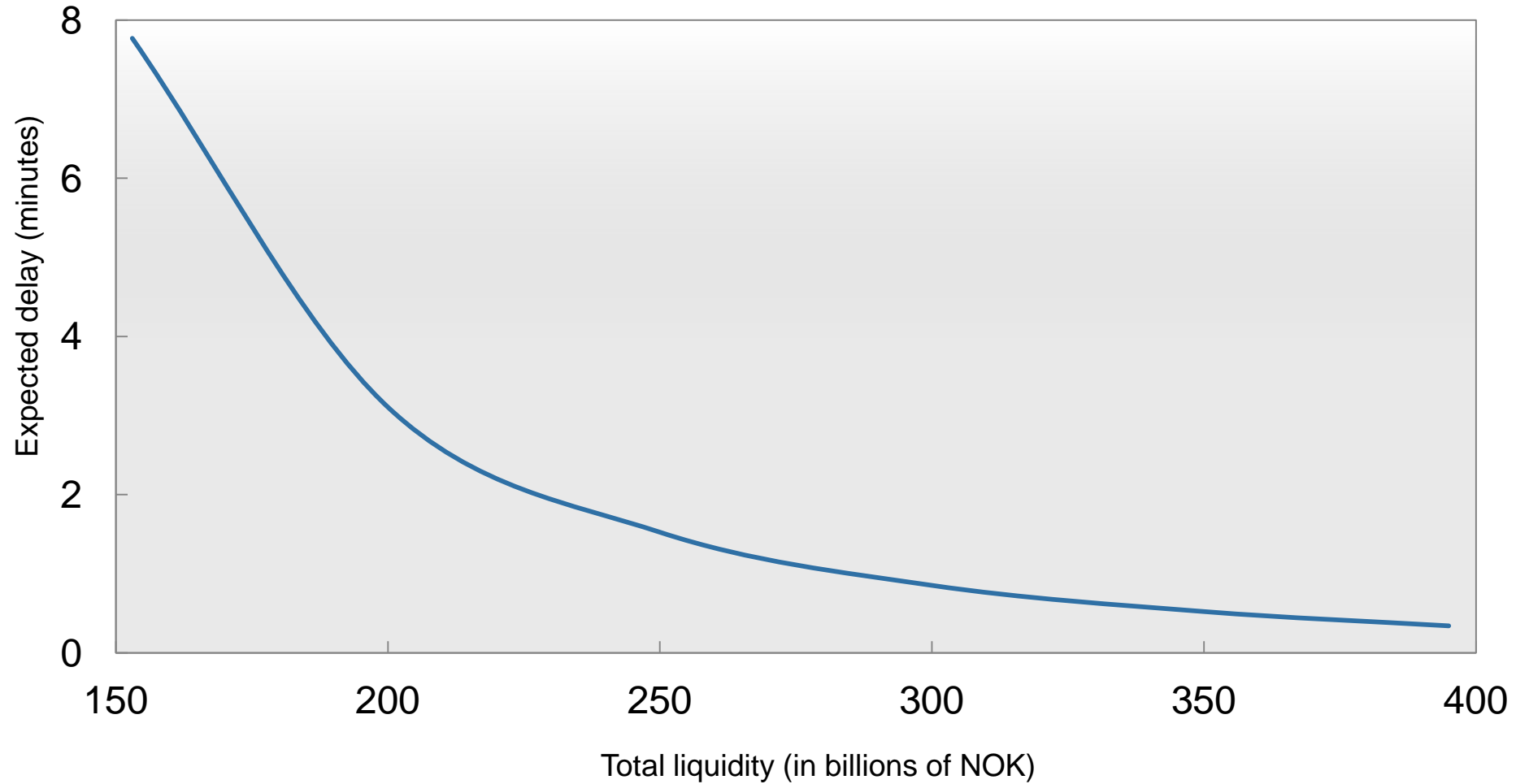
1) Operational problem that lasts for 1 hour, 5 hours and all day. The 21 banks are sorted by value of payments not submitted.

Chart 2 Relative liquidity sink. Operational problem that lasts for 1 hour, 5 hours and all day¹⁾



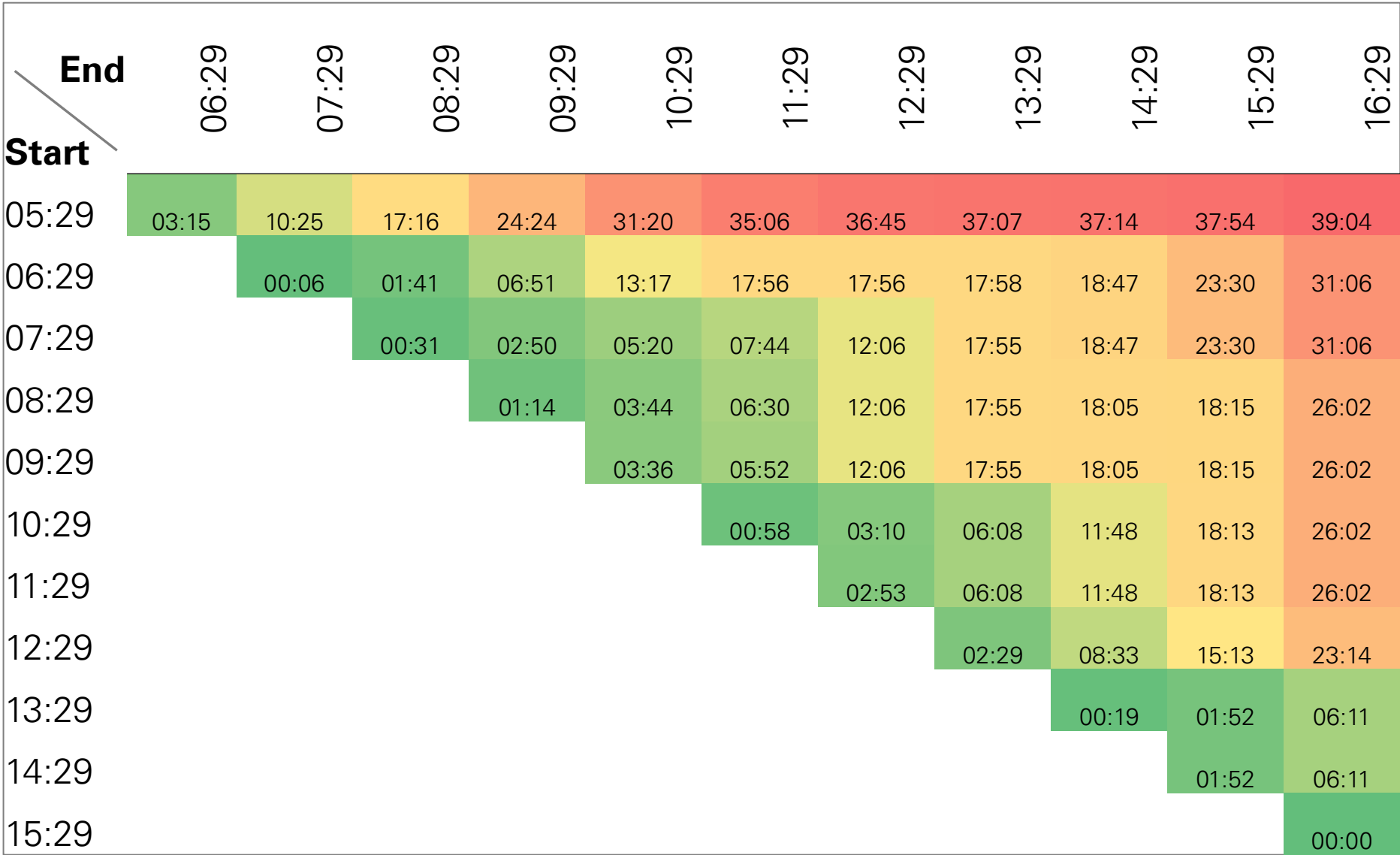
1) The 21 banks are sorted by liquidity sink relative to total liquidity at beginning of day.

Chart 3 Expected contagion (delay) for different levels of liquidity ¹⁾. Average value of transactions. In minutes



1) The chart shows a significant reduction in expected delay as the liquidity in the system increases. Total liquidity below NOK 200 billion typically results in a delay of more than three minutes, while total liquidity above NOK 300 billion results in a delay of less than one minute.

Chart 4 Maximum expected contagion (delay) for other banks by time and duration of the operational problem. In minutes



Source: Norges Bank