List of recent NCBs publications in the field of cash

Eurosystem Research Network on Cash (EURECA)

1. Euro banknote and coin demand

1.1. Trends

Deutsche Bundesbank (2013), "Current and projected development of coin circulation in Germany", *Monthly Report*, January.

Deutsche Bundesbank (2018), "The demand for euro banknotes at the Bundesbank", Monthly Report, March.

Jobst, C. and Stix, H. (2016), "Florin, crown, schilling and euro: an overview of 200 years of cash in Austria", *Monetary Policy & the Economy*, Issue 3, pp. 94-119.

Jobst, C. and Stix, H. (2017), "Doomed to Disappear? The Surprising Return of Cash Across Time and Across Countries", *CEPR Discussion Papers* 12327.

Schautzer, A. and Stix, H. (2019). "Approaching 20 years of euro cash in Austria: What has changed, and what's next?", *Monetary Policy & the Economy*, Issue Q1-Q2/19, pp. 99-112.

1.2. Estimates and modelling

Politronacci, E., Ninlias, É., Palazzeschi, E. and Torre, G. (2017), "The demand for cash in France: review of evidence", in Deutsche Bundesbank (eds.), *International Cash Conference 2017 – War on cash: Is there a future for cash?*, Frankfurt am Main, pp. 92-147.

Politronacci, E., Ninlias, É., Palazzeschi, E. and Torre, G. (2018), "How many banknotes are circulating in France?", Billet No 71.

Rua, A. (2018) "Modelling currency demand in a small open economy within a monetary union", Economic Modelling, Vol. 74, pp. 88-96.

Rua, A. (2019) "Modelling the demand for euro banknotes", Working Paper, No 5/2019, Banco de Portugal, Lisbon.

1.3. Transaction demand

Altmann, M. and Bartzsch, N. (2014), "The volume of euro coins held for transaction purposes in Germany", in Deutsche Bundesbank (eds.), *International Cash Conference 2014 – The usage, costs and benefits of cash – revisited*, Frankfurt am Main, pp. 437-475.

Arango, C., Bouhdaoui, Y., Bounie, D., Eschelbach, M. and Hernandez, L. (2018), "Cash remains top of wallet! International evidence from payment diaries", *Economic Modelling*, Vol. 69(c), pp. 38-48. Bartzsch, N. and Seitz, F. (2016), "What can biology tell us about transaction balances?", *Applied Economics Letters*, Vol. 24, No 5, pp. 355-358.

Bounie D., François, A., Moret, A. and Politronacci, E. (2018), "Use of cash in France: the payment method of choice for low-value purchases", *Bulletin de la Banque de France*, No 220, article 2.

Deutsche Bundesbank (2012), "The use of cash and cashless payment instruments: a microeconomic analysis", *Monthly Report*, October.

Deutsche Bundesbank (2014), "Cash withdrawals at the point of sale: motives for use and implications for cash holdings", Monthly Report, June.

Deutsche Bundesbank (2015), "Euro coins held for transaction purposes in Germany", Monthly Report, April.

Eschelbach, M. and Schmidt T. (2013), "Precautionary motives in short-term cash management – evidence from German POS transactions", Discussion Paper, No 38/2013, Deutsche Bundesbank, Frankfurt am Main.

Eschelbach, M. (2017), "Pay cash, buy less trash?", in Deutsche Bundesbank (eds.), *International Cash Conference 2017 – War on cash: Is there a future for cash?*, Frankfurt am Main, pp. 512-536.

Huynh, K.P., Schmidt-Dengler, P. and Stix, H. (2014), "The Role of Card Acceptance in the Transaction Demand for Money", *CEPR Discussion Papers* 10183.

Van der Horst, F. and Matthijsen, E. (2013). "The irrationality of payment behavior", *DNB Occasional Studies*, Vol.11, No 4.

Von Kalckreuth, U., Schmidt, T. and Stix, H. (2013), "Choosing and using payment instruments: evidence from German microdata", *Empirical Economics*, Vol. 46, No 3, pp. 1019-1055.

Von Kalckreuth, U., Schmidt, T. and Stix, H. (2014), "Using Cash to Monitor Liquidity: Implications for Payments, Currency Demand, and Withdrawal Behavior", *Journal of Money, Credit and Banking*, Vol. 46, No 8, pp. 1753-1786.

1.4. Store of value demand

Stix, H. (2013), "Why do people save in cash? Distrust, memories of banking crises, weak institutions and dollarization", *Journal of Banking & Finance*, Vol. 37, No 11, pp. 4087-4106.

1.5. Foreign demand

Bartzsch, N., Rösl, G. and Seitz, F. (2011), "Foreign demand for euro banknotes issued in Germany: estimation using direct approaches", *Discussion Paper*, No 20/2011, Deutsche Bundesbank, Frankfurt am Main.

Bartzsch, N., Rösl, G. and Seitz, F. (2011), "Foreign demand for euro banknotes issued in Germany: estimation using indirect approaches", *Discussion Paper*, No 21/2011, Deutsche Bundesbank, Frankfurt am Main.

Bartzsch, N., Rösl, G. and Seitz, F. (2012), "A simple way to capture currency abroad", *Applied Economics Letters*, Vol. 19, No 15, pp. 1511-1514.

Bartzsch, N., Rösl, G. and Seitz, F. (2013), "Estimating the foreign circulation of banknotes", *Economics Letters*, Vol. 119, No 2, pp. 165-167.

Bartzsch, N., Rösl, G. and Seitz, F. (2013), "Currency movements within and outside a currency union: The case of Germany and the euro area", *The Quarterly Review of Economics and Finance*, Vol. 53, No 4, pp. 393-401.

Bartzsch, N. and Uhl, M. (2017), "Domestic and foreign demand for euro banknotes issued in Germany", in Deutsche Bundesbank (eds.), *International Cash Conference 2017 – War on cash: Is there a future for cash?*, Frankfurt am Main, pp. 251-286.

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Beckmann, E., Roitner, A. and Stix, H. (2015), "A Local or a Foreign Currency Loan? Evidence on the Role of Loan Characteristics, Preferences of Households and the Effect of Foreign Banks", *Focus on European Economic Integration*, Issue 1, pp. 24-48.

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Brown, M. and Stix, H. (2015), "The euroization of bank deposits in Eastern Europe", *Economic Policy*, Vol. 30, No 81, pp. 95-139.

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Stix, H. (2011), "Euroization: what factors drive its persistence? Household data evidence for Croatia, Slovenia and Slovakia", *Applied Economics*, Vol. 43, No 21, pp. 2689-2704.

Tenhofen, J., Assenmacher, K. and Seitz, F. (2017), "The Use of Large Denomination Banknotes in Switzerland", in Deutsche Bundesbank (eds.), *International Cash Conference 2017 – War on cash: Is there a future for cash?*, Frankfurt am Main, pp. 148-199.

1.6. Illicit use of cash

Ardizzi, G., Petraglia, C., Piacenza, M. and Turati, G. (2014), "Measuring the underground economy with the currency demand approach: a reinterpretation of the methodology, with an application to Italy", *Review of Income and Wealth*, Vol. 60, No 4, pp. 747-772.

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2. Euro banknote and coin supply

2.1. Cash cycle and infrastructure

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Jiménez, C. and Tejero, H. (2018), "Bank branch closure and cash access in Spain", *Financial Stability Review*, Banco de España, No 34, pp. 35-56, Madrid, May.

Marchand, A. and Palazzeschi, E. (2013), Innovation at work: introducing the first banknote in the Europa series, *Quarterly selection of articles - Bulletin de la Banque de France*, Banque de France, No 32, pp. 113-135, Winter.

Narodowy Bank Polski (2018), "Report on Cash Circulation in Poland in 2018", Research Papers.

2.2. Euro banknote quality and design

Banque de France et al. (2019), "Etat des lieux de l'accès du public aux espèces en France métropolitaine", Banque de France Publications. (English version in preparation: "Report on public access to cash in Metropolitan France").

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3. Cost of payment methods

Banco de Portugal (2017), "Social costs for retail payment instruments in Portugal: 2016", Lisbon, March.

Cabinakova, J., Knümann, F., and Horst, F. (2019), "The costs of cash payments in the retail sector: Study to determine and evaluate the costs arising from cash payments in the retail sector", Deutsche Bundesbank, Frankfurt am Main.

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Jonker, N. (2011), "Card acceptance and surcharging: the role of costs and competition", *Review of Network Economics*, Vol. 10, No 2, article 4.

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4. Others

4.1. Cash and other means of payments

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4.2. Survey results

Bagnall, J. Bounie, D., Huynh, K.P., Kosse, A., Schmidt, T., Schuh, S. and Stix, H. (2016), "Consumer Cash Usage: A Cross-Country Comparison with Payment Diary Survey Data", *International Journal of Central Banking*, Vol. 12, No 4, pp. 1-61, December.

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4.3. Environmental impact of cash

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