



Gabriel Söderberg





Agenda

Financial inclusion and payments

Sweden towards a cashless society

• Core message: Sweden has reached a state where we need to take a fresh look on the topic of financial inclusion - access to central bank money is important





Understanding Poverty / Topics

HE WORLD BANK



Financial Inclusion

Financial inclusion is a key enabler to reducing poverty and boosting prosperity.

FINANCIAL INCLUSION HOME

OVERVIEW

"Financial inclusion means that individuals and businesses have access to useful and affordable financial products and services that meet their needs – transactions, payments, savings, credit and insurance – delivered in a responsible and sustainable way."





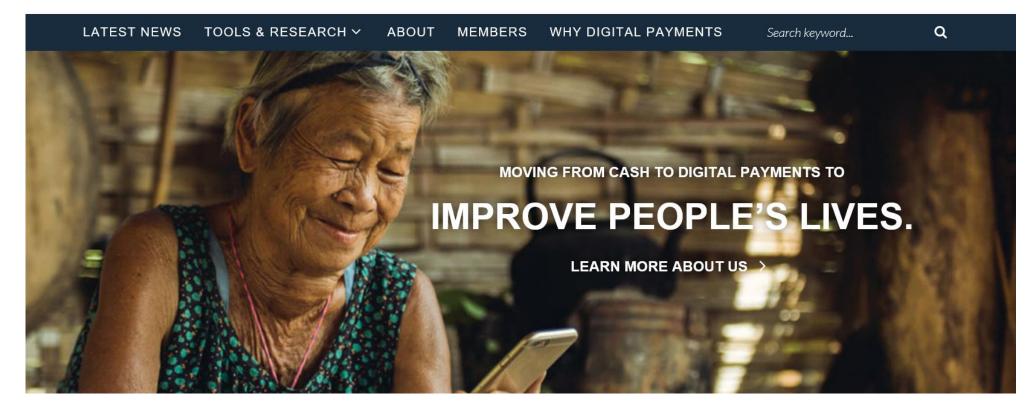
Is cash a problem for financial inclusion?



GOVERNMENTS

INTERNATIONAL ORGANIZATIONS

COMPANIES









 Deposit money generally private money, cash generally public money issued by central bank

 Since cash does not neccesarily entail an account it is often seen as a hinder toward financial inclusion

- A problem is that we forget that cash is central bank money
- Can loss of access to central bank money be a form of financial exclusion?





Sweden in the news: towards a cashless society

Q Search Bloomberg Sign In

Technology

'No Cash' Signs Everywhere Has Sweden Worried It's Gone Too Far

By Amanda Billner

den 18 februari 2018 12:00 Updated on den 19 februari 2018 10:40

- Cash usage declining both as share of GDP and in nominal terms
- ▶ Riksbank committee could publish report on issue in summer

Sweden 'Most Cashless' Society in the World

DIGITAL PAYMENTS

Sweden sprints toward cashless society

Sweden is the most cashless society on the planet. But Germany is skeptical about the rapid transformation to a world without bills and coins.

Roman Tyborski and Stephanie Ott

March 4, 2018 10:58 am

Sweden's strive towards a

cashless society: problematic or

Sweden leads way to a cashless world

The Swedish central lender Riksbank is has project underway called the eKrona to see whether to supply digital central bank money to the public



37 shares











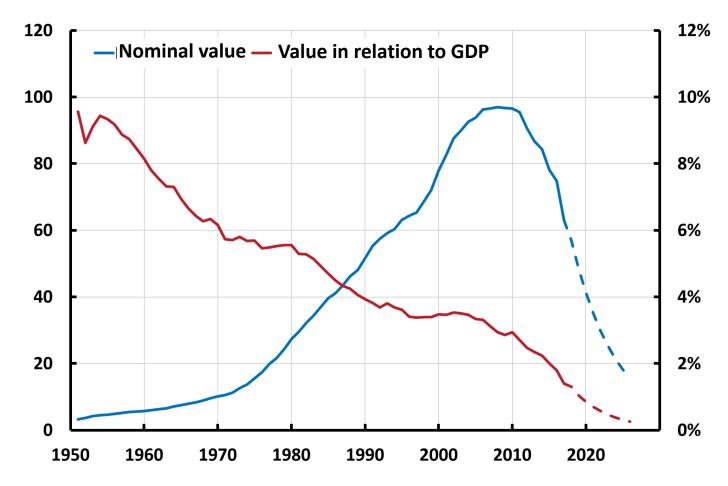
By **Safiya Bashir** - February 19, 2018

the future?

March 5, 2018 Updated: March 5, 2018 03:33 PM



Successful financial inclusion?





SEK bn. (annual average). Cash in circulation/GDP. The broken lines illustrate a potential development based on a trend from 2010.

Sources: Statistics Sweden and the Riksbank

G20 Financial Inclusion Indicators

SVERIGES RIKSBANK

Sweden



Ukraine



Congo, Dem. Rep.





A common occurrence in Sweden







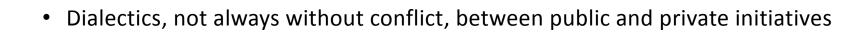




Why is Sweden so far ahead? My personal theory



- Strong state with high degree of trust
 - Trust in government handling of personal information → facilitates financial identification
 - Mandatory tax accounts
 - The *Postgiro* from 1925
- Oligopolistic banking sector
 - Easier to maintain trust in stability of account money
 - Easier to collaborate on joint infrastructure
 - Bankgiro from 1950
 - Bank-ID
 - Swish from 2012





Financial inclusion can create new forms of exclusion



The Swedes rebelling against a cashless society

By Maddy Savage Business reporter, Stockholm

(I) 6 April 2018

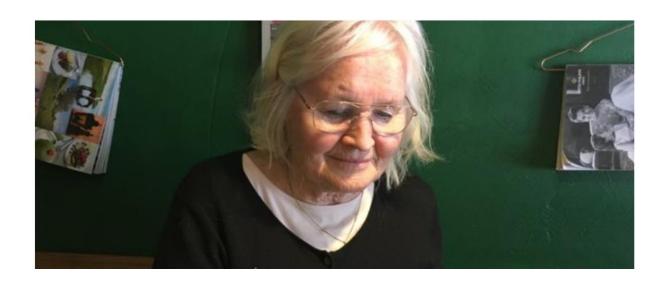
















No public access to central bank money?

- Ensuring access to zero risk money
- Ensuring resilience
 - Every-day malfunctions
 - Cyber attacks/war/natural disasters
- Financial inclusion
 - People without bank accounts
 - People with difficulties
- Efficiency
 - Future concentration , higher prices etc





Riksbanken vill satsa på digitala kontanter

kontanter, en så kallad e-krona. är en konsekvens av att det blir

Edición Impresa

digital

hon kallar e-krona. Det skulle Detkan exempelvis, enliet Cecilia det att bli av det hår, men desig fungera som ett komplement till Skingsley, ske genom ett kontant- nen återstår att se.

Jueves 17 de Noviembre de 2016

Suecia estudiará la adopción de una corona

E-kronan kan ta över enkronan



Enkronan används allt mindre. men i stället kommer e-kronan. Så blir det om Riksbanken beslutar sig för att ge ut elektroniska pengar, menar vice riksbanks-

-Vi ligger i täten, ingen annan centralbank har kommit lika långt. Men det beror på att Sverige ligger så tidigt i övergången till elektroniska betalningar. Då måste även

Men detta är än så länge Cecilia Skingsleys egna uppfattningar, inte Riksbankens. Mycket återstå att utreda, även sådant som om konton med e-kronor ska vara räntebäran-

> i hur systemet skulle fungera eventuell bankkris.

Handelsblatt







WORLD US COMPANIES MARKETS OPINION WORK & CAREERS LIFE & ARTS

Sveriges Riksbank + Add to myFT

Sweden's Riksbank eyes digital currency

Oldest central bank to decide on ekrona within two years





El Banco Nacional de Suecia (Riksbank) anunció ayer que estudiará durante los próximos dos años si recurre o no al uso de una moneda electrónica. La vicepresidente de la institución, Cecilia Skingsley, justificó esta posibilidad resaltando que los suecos usan cada vez menos efectivo ya que la cantidad de dinero en circulación descendió un 40% desde 2009, pero destacó que antes es necesario investigar cuestiones técnicas, jurídicas y prácticas. "Emitir coronas electrónicas es algo completamente nuevo para un banco central y no hay nadie de quien podamos aprender", afirmó Skingsley.



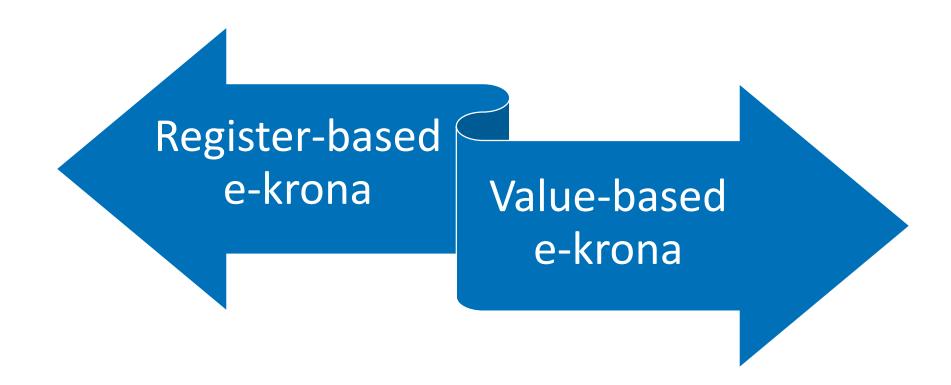
The e-krona

- Central bank money in digital form for the public
- No decision taken yet
- 24/7
- Real time





Two main options





The Riksbank's operative role in an e-krona system can vary



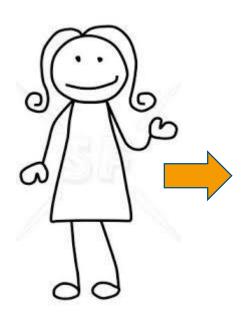




Register-based e-krona with significant Riksbank commitment



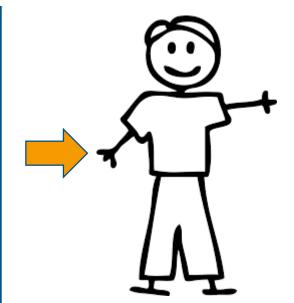




- Card
- Transfer
- Applications
- Account information
- Auctorisation
- Customer care

- Account maintenance
- Deposit
- Withdrawl
- Transfer between accounts

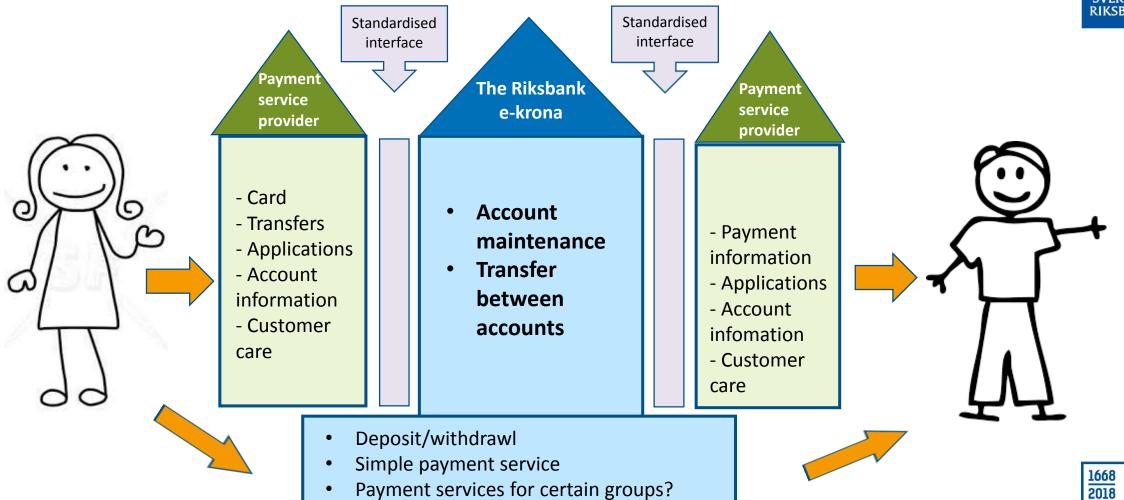
- Payment information
- Account information
- Customer care





Register-based e-krona with significant supplier commitment





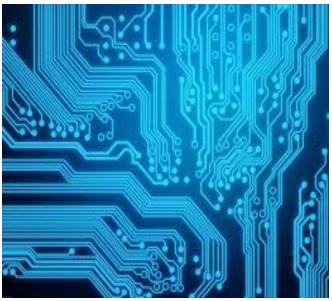
Customer care, basic functions



- Central data base
- DLT, Distributed Ledger Technology (eg. Blockchain)
 - Relatively untested, no applications similar to the e-krona
 - Ongoing research at central banks and other institutions

• Conclusion:

- 1. Decide on properties and functions that the technology should fulfil
- 2. Examine what technology is best suited to reach these criteria
- → Further investigation is necessary









Overall timeline, the e-krona project

PHASE 1: Draw up a general proposal for an e-krona and a potential design for an e-krona system PHASE 2: Refine the e-krona concept and begin developing a structure for regulations and agreements PHASE 3, two alternatives:

- Develop & implement an e-krona system
- Continued analysis

2017 2018 2019-

Decision to move into phase 3 or to conclude the project





Conclusion

• The Swedish road to financial inclusion was a combination of public and private initiatives

Financial inclusion a continual process with changing challenges

• Financial inclusion in the future, as in the past, will depend on a dialectic relationship between central banks, governments and private enterprise

