

Mobile payments and banking with NFC

NOKIA

From paying by touching a cash register to providing the first mobile banking services in developing nations.



Mobile financial consumer services

We have today...

SMS services
WAP information services
Special applications, Java...

**...and more coming
with NFC...**

Near Field Communication (NFC)

- NFC is an evolution of contactless and short range RFID technologies
- Enables easy and intuitive ways of using mobile phones with touch-based technology - operating distance of a few centimeters
- NFC Technology
 - Optimized for proximity transactions, as well as handovers to other bearers
 - Standardized in ISO 18092
 - Works in globally available 13.56 MHz range, data exchange rate between 106-424 kbps
 - Compatible with the existing and to-be-built contactless payment and ticketing card infrastructure based on ISO 14443 standard



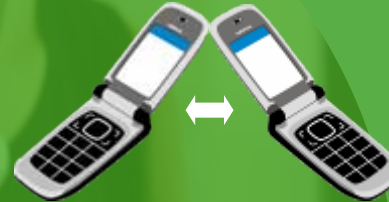
New consumer services for easier interaction

Your phone
is your
travel card

Ticketing



Sharing



Share content
between
phones / pair
devices

Get information
by touching
smart posters

Service discovery



Payment



Your phone
is your
credit card

Markets

**3 billion
mobile
subscribers**



**2,5 billion
bank cards**



**Convergence
is on its way**



The NFC Handset Market

ABI research 2007: NFC-Enabled Handset Shipments (Millions)



User Interface



NFC Trials Results and Surveys Prove a Strong Consumer NFC Interest



*Signature is not required for purchases under \$25 at participating locations. PIN may be required for debit transactions. [Find Participating Locations](#)



New York 2007 NFC Pilot

- Words like “cutting edge” and “efficient” were used by respondents to describe the **Trial Phone**.
- Nearly all respondents said they took the **Trial Phone** with them everywhere they went.
- Nearly all respondents would continue to use the **Trial Phone** if it became commercially available.

57% consumers interested in mobile payments → 90% happy to pay more for a phone enabling mobile payments

92% like the NFC ticketing concept, 100% like to put other payment cards into mobile phone

VISA



中国移动通信
CHINA MOBILE
移动信息专家

Pension Payments in India Using Nokia 6131 NFC

Nokia 6131 NFC Phone used by the for carrying out banking transactions.

Fingerprint Scanner used for verification of customer.

70 years old person eligible to withdraw Rs.200 (US\$ 5) social security pension.

Summary

NFC is Simple, Instant, Effective, Reliable and Secure

Broad market activities highlight an increasing momentum in NFC, with clear value to all stakeholders for NFC commercialization

Trials and 1st commercial launches in 2007 extending learning's and enabling the planned, broader commercial rollouts in 2008 and beyond

In developing markets NFC for identity management (Know Your Customer), for branchless banking and micro-financing

Thank you

NOKIA

www.nokia.com/nfc

www.europe.nokia.com/6131NFC

www.forum.nokia.com/6131NFCSDK