



Marina Solin, Regulatory Director GSMA









En digital agenda 1001100101010111011100001002010-2020 för Europa



Barcelona

Setting the scene

Barriers and principles for contactless mobile payments

Jorgen Gren Deputy Head of Unit, DG INFSO European Commission



Scenario/vision Seamless citizen experience with interoperable mobile solutions





Touch to Discover



Touch to Share



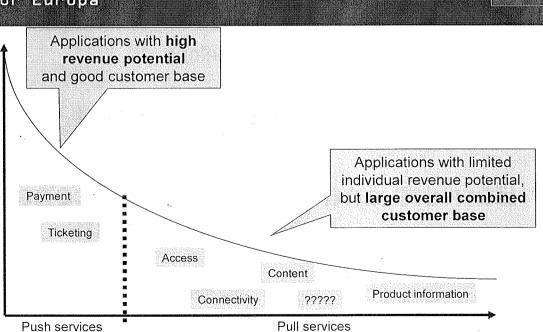




Touch to Pay

Touch to Ticket

En digital agenda 1001100101010111011100001002010-202 Mobile solutions — long tail för Europa



- The pull services —the long tail can cumulatively outweigh the push services
- All services need to be considered for mobile solutions roll-out



Barriers to proximity payment solutions

Fragmented markets proprietary solutions lack of interoperability

Roll-out of infrastructure, how to achieve critical mass?

Low trust: security and data protection, liability for unauthorized transitions

Market operators'
"wait-and see"
approach – what is the
tipping point?

En digital agenda 1001100101011110111100001002010-2020 för Europa



Where is the industry going?





Untapped potential

- Mobile operators interested in investing in NFC 1 in 5 smartphones will be NFC enabled in 2014 (Green paper)
- In the US, value of NFC payments is expected to reach \$50 billion by 2016 (ABI, 2011)
- Over 5m SIM-based NFC devices sold in South Korea in 2011 (~10% of user base)

BUT:

- Europe lagging behind: in 2010 only 7 m mobile payment users in Western Europe, while 63 m in Asia / Pacific
- Important global m-payments initiatives **outside of Europe**: Apple, Google, Visa, MasterCard...

En digital agenda 10011100101011110111100001002010-2020 för Europa



FP sponsored research - particularly for NFC development

StoLPan - Store Logistics and Payment with NFC:

- •Budget 4.9m euros
- •Deliverables: developed a JAVA based mobile NFC host application, back-office architecture, communication protocols
- Completed in 2008
- Partners:







Key principles for the future (embedded in GP)

- Quick development and massive deployment of infrastructure
- Smart co-operation and fair sharing of profits
- (Resilience and efficiency of m-payment systems)
- Interoperability and open standards: to limit market fragmentation: to ensure convenient, cost-effective solutions – is more standardisation necessary, where?
- Appropriate level of security for the whole m-payment value chain resulting in high degree of consumer trust

En digital agenda 10011100101011110111100001002019-2020 för Europa



Take home message

- Support for efforts of European industry to deploy mobile contactless payments
- But:
- Added value for digital single market
 - Open standards,
 - Interoperability
 - Competition issues respected



Thank you for your attention!

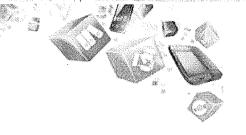
En digital agenda 1001100101010111011100001002010-2020 för Europa



M-payments Green Paper - key policy questions

- Is more standardisation necessary? What role, if any, can CEN or ETSI play? (Q 21, 22)
- In which segment in the payment chain are there **interoperability gaps**? How can they be addressed? (Q 23, 24)
- How to address **governance structure** of standardisation and interoperability? What is the role for public authorities (Q 25, 26)
- Are m-payments secure enough? What approaches/technologies are most effective? Would legislation on payment security necessary? (Q 25 – 27).
- How to ensure protection of personal data? (Q 28).
- What are **benefits** / **drawbacks** of roll-out of m-payments for transport? Can transport pave a way for m-payment roll-out in other sectors? How to engage payment service providers?





Socio-economic benefits of SIM-based NFC

Panelists:

Nav Bains, Business Lead Mobile NFC Services, GSMA Michael Knott, Vice-President, Booz and Company Daniel Gurolla, Vice-President, Orange Moderator: Marina Solin, GSMA











GSMA Mobile NFC Programme

27 February 2012

Barcelona



Mobile Trends

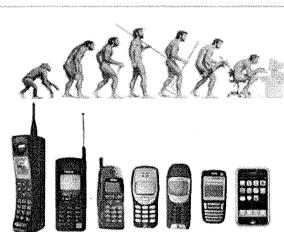
@ GSM Association 2012

Trends in the Mobile Phone evolution



Processing power and sophistication of the mobile phone is growing

- Analogue voice only
- Digital voice and data
- High speed data
- Internet enabled
- Cameras
- Music
- Touch screen
- Application stores
- Mobile Wallets
- Spectrum of new services (NFC proximity payments, loyalty, access, transportation ticketing etc)
- Location based services (personalised advertising)
- What next?



NFC - Business Opportunity



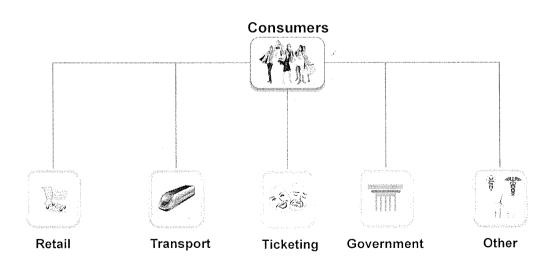
- 860 million NFC-enabled handsets driving a payment value of €110B globally by 2015 (Frost & Sullivan, 2011)
- Global NFC payments to reach US\$50B by 2014 (Juniper Research, 2011)
- North America and Western Europe will account for 50% of NFC payments market by value in 2014 (Juniper Research, 2011)
- Value proposition is much more than just payments (e.g. Ticketing, Access Control, Coupons, Vouchers)
- Operators can increase customer loyalty with new, innovative value added services

© GSM Association 2012

18

Mobile NFC brings new services to the consumer





A complex ecosystem involving many players





© GSM Association 2012

20

Objective GSMA's NFC Programme



"To stimulate the successful global deployment of interoperable and SIM-secured NFC / contactless services and ecosystems which are available to all"

NFC Programme



- Working in 9 different markets around the world to help accelerate SIM-based NFC service launches
 - Australia, Belgium, Brazil, Canada, China, Western Europe, Japan/Korea, Nordics, Poland

© GSM Association 2012

22

Building the NFC Ecosystem











Differing approaches to NFC will fragment the market NFC can only succeed with collaboration across the value chain

GSMA Liaisons and collaboration



- GSMA has been working with a number of key players in the ecosystem for several years, including:
 - EMVCo
 - ETSI
 - European Commission
 - European Payment Council
 - Euro-Commerce
 - GlobalPlatform
 - _ IATA
 - NFC Forum
 - NRF

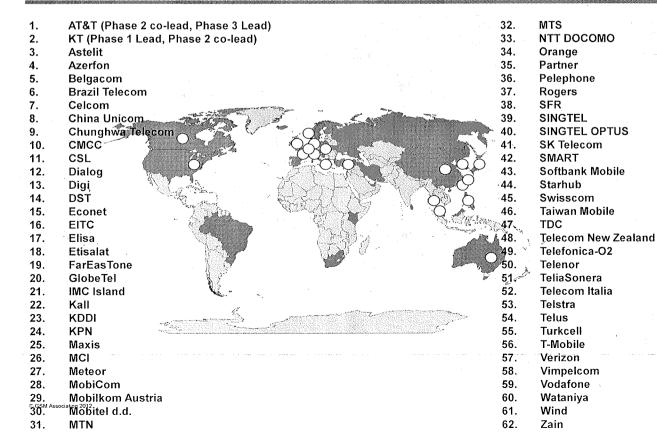
© GSM Association 2012

24

25

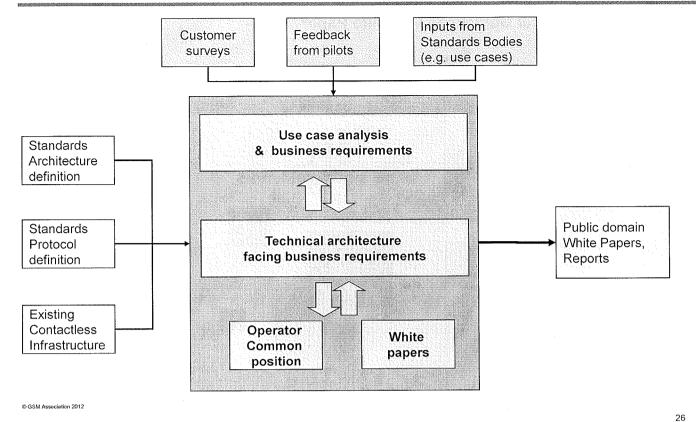
62 Operators Participating/supporting NFC Project Over 20 NFC Pilots around the world





GSMA Approach

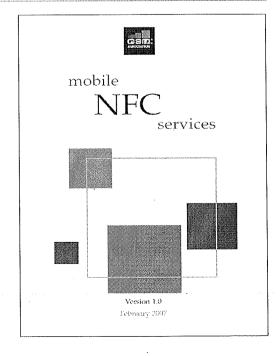




GSMA Publications



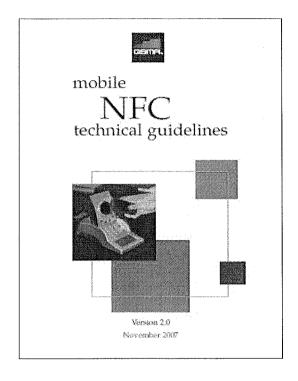
- Business Opportunity Analysis Public White Paper
 - http://www.gsma.com/news-information-and-resources/



GSMA Publications



NFC Technical Guidelines V2 White Paper



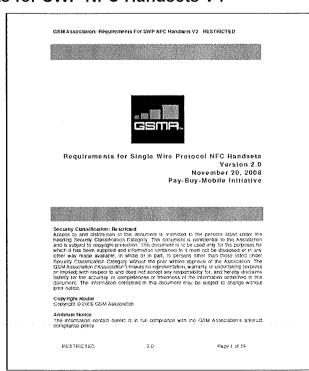
© GSM Association 2012

28

GSMA Publications



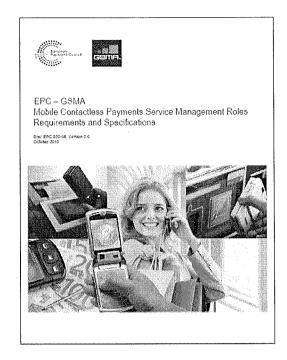
GSMA Requirements for SWP NFC Handsets V4



GSMA-EPC Publication



■ EPC/GSMA TSM document V2



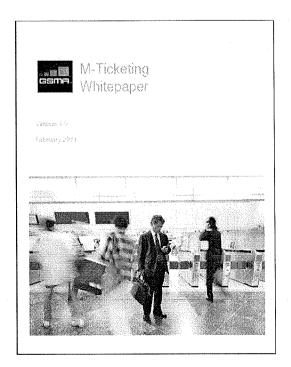
© GSM Association 2012

30

GSMA Publications



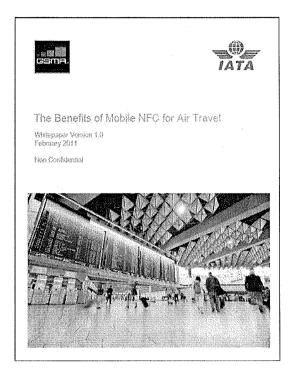
M-Ticketing White Paper



GSMA-IATA Publication



GSMA-IATA White Paper v1 published February 2011



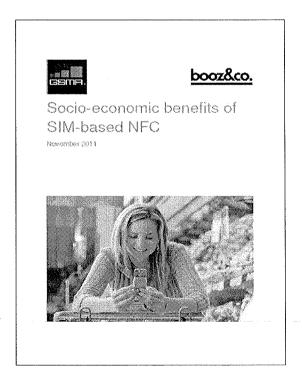
© GSM Association 2012

.

GSMA Publications

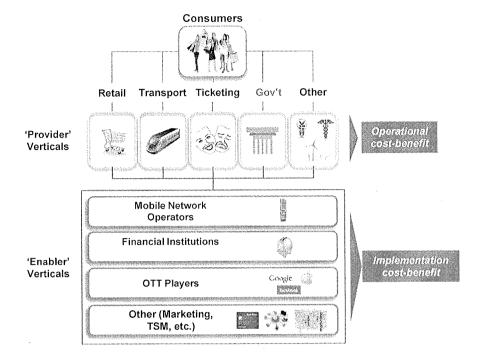


Socio-Economic Benefits of SIM based NFC Services



Analytical approach covers multiple stakeholders and sectors





Source: Booz & Company analysis © GSM Association 2012

34

Two market scenarios underpin key study messages and outputs



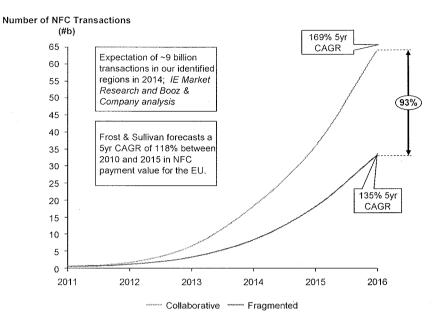
- Scenario 1: Collaboration and Standardisation
- Scenario 2: Fragmented and Proprietary

Standardisation drives greater aggregate transaction volume



Total NFC Transaction Volume

(across all sectors and markets)



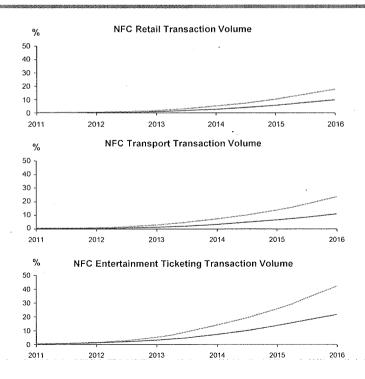
Standardisation reduces cost and infrastructure barriers, creating a more conducive enabling environment for national as well as local market players

Source: Juniper, ComScore, Frost & Sullivan, IE Market Research, Booz & Company analysis
© GSM Association 2012

36

Increased transaction flows underpin these impact areas





Source: Juniper, ComScore, Frost & Sullivan, IE Market Research, Booz & Company analysis

Collaborative — Fragmented