

## Developing The Smart Card -Research Results-

Conducted by BAI and PA&A for AT&T Calling Card Services

- Does the consumer desire fewer cards in his/her wallet?
- What are the characteristics of the card issuer/operator?
  - Trust
  - Security
  - Independence

- Integrity
- Honesty
- Confidentiality
- What business is the issuing/operating institution in?
  - Banking
  - Government

- Telecommunications
- Other



- Does the brand on the card have any relevance to the consumer/user?
- Will the consumer recognize the difference between the application issuer, card issuer and the operator?
- Will the consumer believe that the device is secure and the data within it confidential?
- Will the consumer understand how to operate a multi-application smart card?



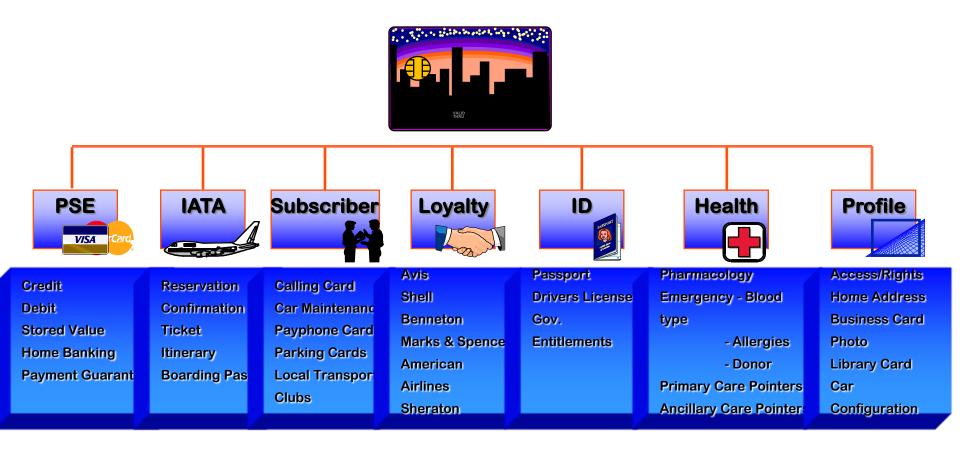
- Assuming the consumers are interested in the multi-application capability, how will they group their different cards, identities or services?
- Will they want to be able to change the content of the card during the cards two or three year life?
- Would they be willing to pay for the service offered?
- How would they value the service offered?



#### Will Smart Cards

- Achieve significant market penetration the next 3-5 years?
- Be used as a "key" to access network services through individual devices?
- Be used as a "key" to access network services across multiple devices?
- Be used to deliver applications to consumers or just access to applications?





### Each by Themselves Hard to Justify



- A two phased research study to understand consumer needs and preference was conducted in February and March 1997
- Focus groups were conducted in:
  - UK

- Holland
- GermanySpain
- Seven questions placed in Omnibus surveys 1n:
  - UK

Holland

Spain

Italy

- Germany
- France



## Study Objectives Current Card Behavior:

- To gain an understanding of consumers' perceptions toward the cards/items in their possession; which are always carried/which are carried occasionally or rarely.
- To determine whether the card, when used, is a vital asset or just something that one needs to go about their day.
- To gain an understanding of what constitutes a card's value.



## Study Objectives Current Card Behavior:

- To gain an understanding of how typically used cards/items are bundled together.
- To determine consumers' level of understanding of a multi-co-branded card.



## Study Objectives Smart Card:

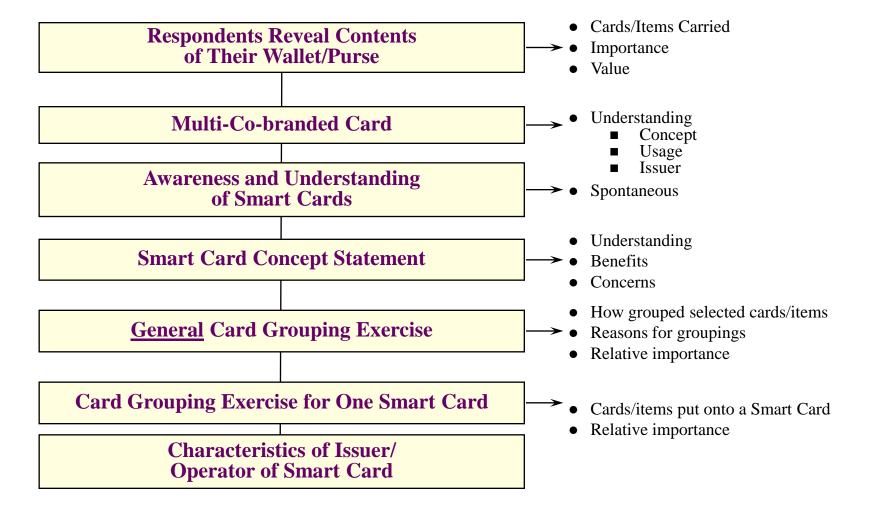
- To assess market awareness and usage of Smart Cards.
- To identify consumers' perceived benefits and concerns of a Smart Card.
- To determine interest and appeal in the Smart Card concept.
- To determine which cards/items constitute consumers' 'ideal' Smart Card.



## Study Objectives Smart Card:

- To gain an understanding of the necessary characteristics that an organization would possess if it were to issue and manage a Smart Card.
- To determine the types of companies most suitable to issue and manage a Smart Card.

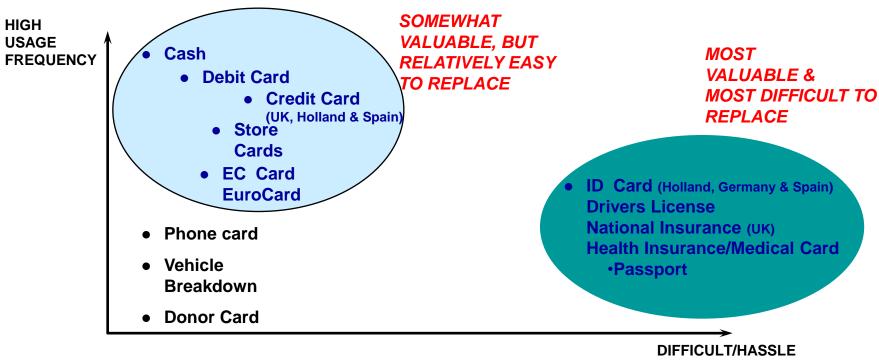
### The Flow of the Focus Groups



### Value

• The <u>value</u> placed on cards/items largely evolves around:

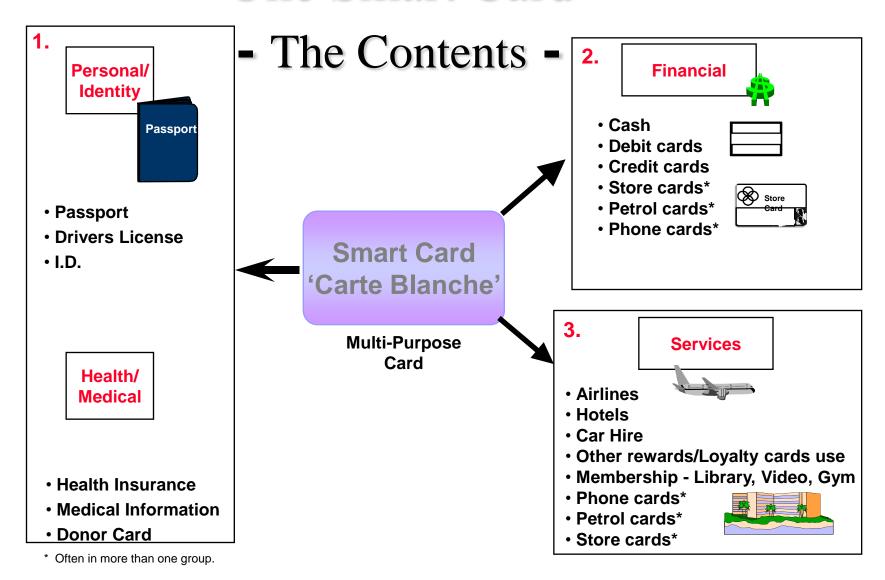
Replace-ability & Frequency of use



**TO REPLACE** 



#### One Smart Card

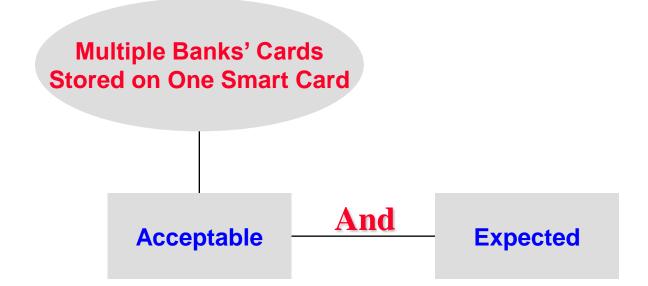




## Competing Applications Issuers -One the Same Card-

- Minimal or no branding required
  - Security

- Personalize
- Consumers often use more than one bank
  - Use several cards from different banks.



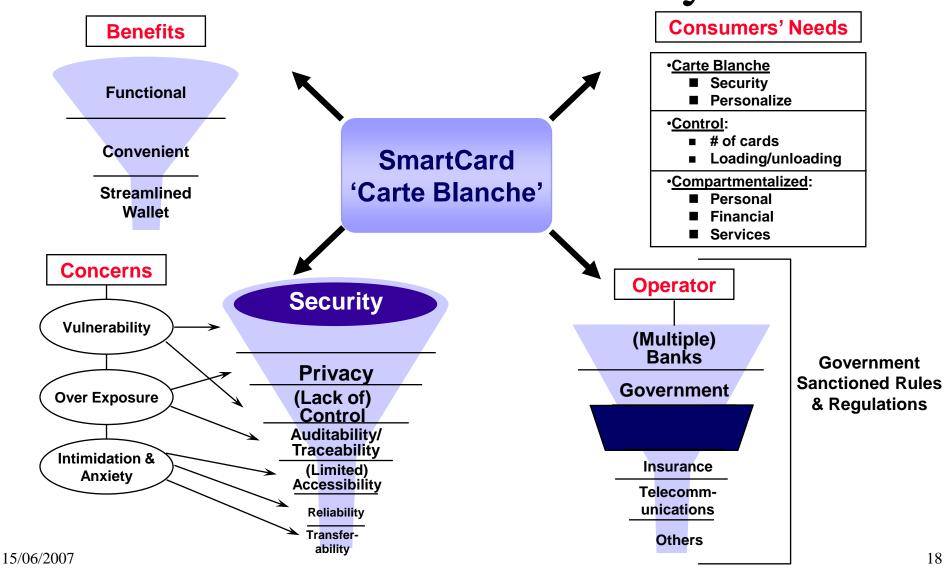


# Consumer Perspective on the Issuer and Operator For Smart Card

I don't care who produces it, it's firm operating the system that matters-security, data, Protection...

(Germany, Female, Upper income)







## Executive Summary

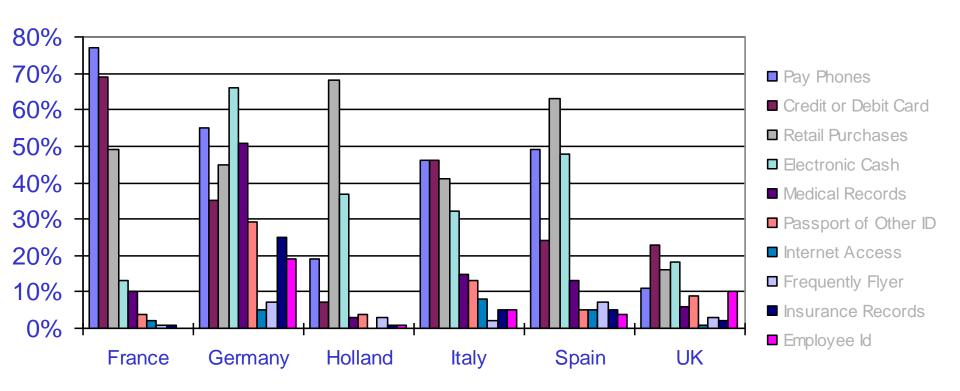
### - Qualitative Research -

- Enormous market potential for a Smart Card in all four countries:
- Carte Blanche
  - Security
  - Personalize
- Possibility of using more than one Smart Card.
  - Privacy
- Ability to compartmentize the Smart Card
  - Privacy
- Consumer needs control/freedom over what information/items/value goes onto their Smart Card.
- Consumer flexibility in loading and unloading information/value (perhaps on a daily basis).

#### pa philip andreae and associates

### Smart Cards Can Be Used For

- Spontaneous Responses -





## **Executive Summary**

- Quantitative Findings -
- Levels of trust in different companies varied by country, but were generally highest for:
  - National banks
  - American Express
  - Domestic Telecommunications Operator (except Germany).