

## **Appendix B: Cost Benefit Profile Completion Working Assumptions**

This section details the assumptions required for completion of the cost benefit profiles. The assumptions listed are by no means final; they have been developed inline with the increasing understanding of the programme constraints.

Changing assumptions do not make the template invalid, because the changes will be accounted for in further analysis work by the programme modelling team. As such, it is vitally important that when the method of calculation is identified in the lower section of the template, the inclusion of these assumptions within the calculation are clearly identified.

The following assumptions are not exhaustive and it is likely that user organisations will identify other areas that relate to their benefits for which they have to make assumptions. It is important where such assumptions are made that they are recorded on the profile.

### **B.1 Legislation**

Assume that the current draft legislation will be the final legislation.

<http://www.homeoffice.gov.uk/comrace/identitycards/index.html>

### **B.2 Card take-up profile**

UK population is taken as 50,000,000<sup>1</sup> after U16s have been removed. It is assumed that driving licences will form part of the family of cards from year 1 and therefore represent a card penetration of 10.6 million over 5 years<sup>2</sup>.

Year 1 10%<sup>3</sup> (5,000,000) of the population will enrol. UK Passports will represent 70% (2,400,000) of year 1 registrants. Driving licences will represent 42% (2,100,000) of year 1 registrants<sup>2</sup>. Foreign Nationals will represent 3% (100,000) of year 1 registrants<sup>4</sup>. Plain cards will represent 7% (350,000) of year 1 registrants<sup>2</sup>.

Year 2 20% (10,000,000) of the total population will enrol. UK Passports will represent 70% (6,900,000) of year 2 registrants. Driving licences will represent 21% (2,100,000) of year 2 registrants. Foreign National residency permits will represent 3% (300,000) of year 2 registrants. Plain cards will represent 7% (700,000) of year 2 registrants.

Year 3 20% (10,000,000) of the total population will enrol. UK Passports will represent 70% (6,900,000) of year 3 registrants. Driving licences will represent 21% (2,100,000) of year 3 registrants. Foreign National residency permits will represent 3% (300,000) of year 3 registrants. Plain cards will represent 7% (700,000) of year 3 registrants.

Year 4 20% (10,000,000) of the total population will enrol. UK Passports will represent 70% (6,900,000) of year 4 registrants. Driving licences will represent 21% (2,100,000) of year 4 registrants. Foreign National residency permits will represent 3% (300,000) of year 4 registrants. Plain cards will represent 7% (700,000) of year 4 registrants.

Year 5 20% (10,000,000) of the total population will enrol. UK Passports will represent 70% (6,900,000) of year 5 registrants. Driving licences will represent 21% (2,100,000) of year 5 registrants. Foreign National residency permits will represent 3% (300,000) of year 5 registrants. Plain cards will represent 7% (700,000) of year 5 registrants.

Year 6 10% (5,000,000) of the population will enrol. UK Passports will represent 70% (2,400,000) of year 6 registrants. Driving licences will represent 42% (2,100,000) of year 6 registrants. Foreign

Nationals will represent 3% (150,000) of year 6 registrants. Plain cards will represent 7% (350,000) of year 6 registrants.

Year 7 onwards it is assumed that there will be full National coverage, and therefore new enrolments will only involve renewals, those rising to 16 years of age and Foreign Nationals entering the country for longer than 3 months.

### **B.3 Production Of Identity Card Upon Request**

With the exception of those circumstances defined in legislation when the identity card can be requested by the user organisation, the following assumptions apply to the likelihood of a cardholder producing their identity card, or offering their biometric when asked.

#### **B.3.1 Voluntary production of card**

It is assumed that 60% of the card holding population will have their identity card with them and voluntarily produce the card when requested.

#### **B.3.2 Voluntary Production of Biometric or Data**

It is assumed that 10% of the card holding population will not have their card with them but will voluntarily offer their biometric or relevant identification information to confirm their identity.

#### **B.3.3 Refusal to Supply Card or Biometric**

It is assumed that 30% of the card holding population will refuse to provide their card or voluntarily supply identity data or biometric.

### **B.4 Process Times**

#### **B.4.1 Website Process**

The processing time for a website interaction from moment of transmitting the data to receiving a result from the NIR is assumed to be 30 seconds

#### **B.4.2 Call Centre Process**

The processing time for a call centre interaction from moment of dialling call centre to moment of receiving a result will be assumed to be 60 seconds.

#### **B.4.3 Offline PIN check**

The processing time for an offline PIN interaction from moment of inserting card into reader, to the moment a result is received is assumed to be 15 seconds.

#### **B.4.4 Online PIN Process**

The processing time for an online PIN process interaction from moment of inserting card, to the moment a result is received is assumed to be 30 seconds.

#### **B.4.5 Offline Biometric Process**

The processing time for an offline Biometric process interaction from moment of inserting card, to the moment a result is received is assumed to be 15 seconds.

#### **B.4.6 Online Biometric Process (with card)**

The processing time for an online Biometric process interaction from moment of inserting card, to the moment a result is received is assumed to be 30 seconds.

#### **B.4.7 Online Biometric Process (without card but additional data supplied voluntarily)**

The processing time for an online Biometric process with additional data supplied but without a card, from moment of inserting card, to the moment a result is received is assumed to be 60 seconds.

#### **B.4.8 Online Biometric Process (without card and no voluntary information)**

The processing time for an online Biometric process without additional data supplied and without a card, from moment of placing biometric on reader, to the moment a result is received is assumed to be 15 minutes.

#### **B.4.9 Data downloading from Chip (Level One)**

Data downloading from chip at level one is assumed at 10 seconds from moment card is inserted to moment data is downloaded.

#### **B.3.4.10 Data downloading from Chip (Level Two)**

Data downloading from chip at level two is assumed at 20 seconds from moment card is inserted to moment data is downloaded.

#### **B.5 Verification Processes**

The Verification Framework document version 0.3 is assumed to be the business process design.

#### **B.6 Data held on card and chip**

The Verification Framework document version 0.3 is assumed to be the final configuration for data specification on the chip and card.

#### **B.7 NINO**

Where the NINO is relevant to a user organisation they are to assume four options when considering their benefits. Option one that the NIR number is the same as the NINO. Option two that the NINO is on the card but not the NIR number. Option three that the NINO is in the chip only. Option four that the NINO is not on the card nor in the chip.

#### **B.8 Verification response**

Assume that the verification process followed provides a correct positive or negative match on 100% of occasions.

#### **B.9 Equipment costs**

All readers are assumed to cost £250.

#### **References**

- 1 Government Actuaries Department. 2003 Population projections
- 2 Home Office Identity Card Programme. 2004 Plain Card Study.
- 3 Home Office Identity Card Programme. 2003 Outline Business Case
- 4 Office of National Statistics. Sizes and characteristics of the minority ethnic populations of Great Britain.  
Office of National Statistics. FMI data series.  
RDS. Home Office SB 9/03. Take up rates of British Citizenship by region of birth, 2001 from labour force survey.