



## Transfer of the INE Statistical Yearbook to iPad

### Report from a short term work for the National Statistical Institute of Mozambique, Maputo Mozambique

**14 May - 28 August 2012**

within the frame work of the

***AGREEMENT ON CONSULTING ON  
INSTITUTIONAL CAPACITY BUILDING,  
ECONOMIC STATISTICS AND RELATED AREAS***

between

***INE and Scanstat***

***Adam Tapper***



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## About Isolve AB

Isolve is a proven mobile business partner with satisfied customer among several different industries. We develop for iPhone, iPad and Android and for these platforms we have released over 60 mobile applications. Our process covers all stages in an application's life-cycle, strategy, business models, design, development, test, distribution, maintenance and support. For more information please visit our webpage [isolve.se](http://isolve.se)

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## Project team - Anuário 2010

### Isolve

- Adam Tapper, Project Manager
- Petrus Wang, CEO and Developer
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### INE Maputo

- Anselmo Nhane, Project Manager
- Paulo Matusse, Project Manager
- Lars Carlsson, Approver
- Cirilo Eduardo Tembe, Legal Contact

## **Table of contents**

Sumário executivo em Português.....	4
Executive summary in English .....	4
The project .....	5
Appendix 1 – Project follow up (2012-05-22).....	7
Appendix 2 – Time plan and TTC .....	9
Appendix 3 – App Store details .....	10
Appendix 4 – Project overview (2012-05-18) .....	11
Appendix A – Terms of Reference .....	16
Appendix B – Terms of Reference - Pre Study .....	19

## **Sumário executivo em Português**

Juntamente com o Statistics Sweden Isolve anteriormente desenvolveu e publicou as versões sueca do Anuários Estatísticos de 2011 e de 2012 como aplicações para iPad.

O principal objectivo com o projecto actual tem sido a de desenvolver e publicar um aplicativo semelhante para o Instituto Nacional de Estatísticas de Moçambique, com base na mesma funcionalidade e aparência.

Isolve ter tido conhecimento do fato de que a primeira transferência do Anuário do INE é importante. no entanto, as transferências futuras onde INE faz o trabalho em si são ainda mais importantes.

Este relatório resume o processo do projecto, os resultados e a colaboração entre o INE e Isolve.

O aplicativo resultante deste projecto pode ser baixado gratuito através <http://itunes.apple.com/app/anuario-2010/id553809747?mt=8>

## **Executive summary in English**

Together with Statistics Sweden Isolve previously has developed and published the Swedish versions of the Statistical Yearbook for 2011 and 2012 as iPad applications.

The main objective with the actual project has been to develop and publish a similar application for the National Institute for Statistics in Mozambique, based on same functionality and appearance.

Isolve have been aware of the fact that the first transfer of the INE Yearbook is important. however, future transfers where INE does the work themselves are even more important.

This paper summarizes the process of this project, results and the collaboration between INE and Isolve.

The resulting app can be downloaded for free through <http://itunes.apple.com/app/anuario-2010/id553809747?mt=8>

## **The project**

As stated in project overview up (Appendix 4), the process including developing and publishing an iPad application on App Store can be divided into five main objects. In this report Isolve have evaluated and summarized each objective.

In general, the project went smoothly and according to project deadlines and the prerequisites in appendix 4 were followed.

- Register publisher account
- Graphical User interface (GUI)
- Development
- Testing
- Publishing
- (• App Store details)

### Register publisher account

Apple tightly controls the process with register and publisher account for App Store. It involves eight separate steps which should be followed in right order otherwise it can result in delays. Isolve provided INE with guidelines on how to complete each step.

This process takes roughly 15 bussiness days until the account is active and ready for use.

Due to the fact that the application Anuário 2010 should be published as publication by Instituto Nacional de Estatística, INE needed to be involved and present the following:

- Legal contact that has the right to bind INE to agreements presented by Apple
- Responsible for the communication with Apple via fax, e-mail and telephone
- Confirm that INE has the intend to participate in Apple developer programs

INE provided good communication with Isolve and Apple and supplied them with the required information. This was completed according to the project time plan (Appendix 2) and TTC (Appendix 2).

### Graphical User interface (GUI)

Based on INE's visual identity/graphical profile Isolve presented GUI for the project. INE evaluated icons, interface, and navigation and provided Isolve with feedback and suggestions on how the GUI could be improved. INE took an active role in this objective and it was completed according to time plan.

### Development

This process did not involve INE participation at any level. Isolve were responsible for the development but were aware of the fact that INE has the intent to develop upcoming yearbooks by themselves and for that reason documentation and notes that can be used as guidelines were taken.

### Testing

During the development process INE had the opportunity to test beta versions and later on also approve the final version.

Throughout the development phase INE provided good testing via test documents where they carefully pointed out bugs and suggestion on how these could be fixed.

### Publishing

This process did not involve INE participation at any level. Isolve were responsible for the publishing via INE's publisher account. However, for future publications notes were taken on how this process can be carried out as effective as possible.

### App Store details

As stated in Appendix 3, INE provided Isolve with necessarily details for publishing on App Store. This information was provided in time according to project time plan.

## Appendix 1 – Project follow up (2012-05-22)

### Agenda

- Introduction Isolve
- Project status
- Time plan
- Evaluation GUI - INE Yearbook
- Information – App Store
- Questions

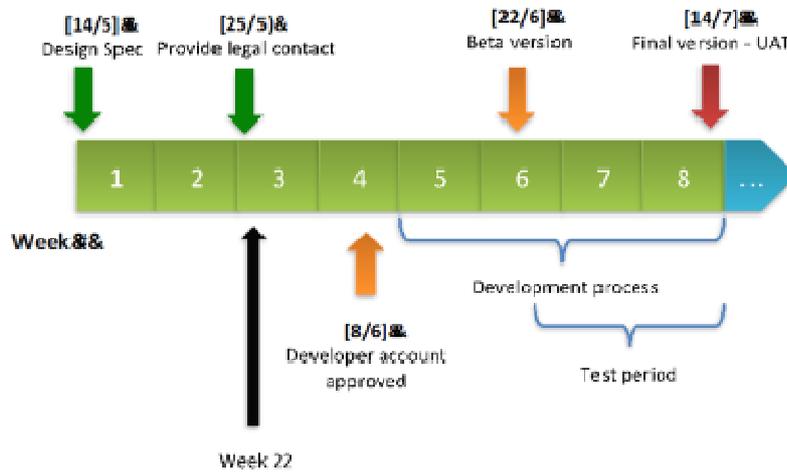


### Project status

<u>Activity</u>	<u>Responsibility</u>	<u>TTC</u>
Developer account	INE	25/5
- Provide legal contact		
- Fax information to Apple		
Graphics	INE	1/6
- Approve GUI		
Pop ups		
- Provide diagram information	INE	10/6
- Provide map information		



# Time plan

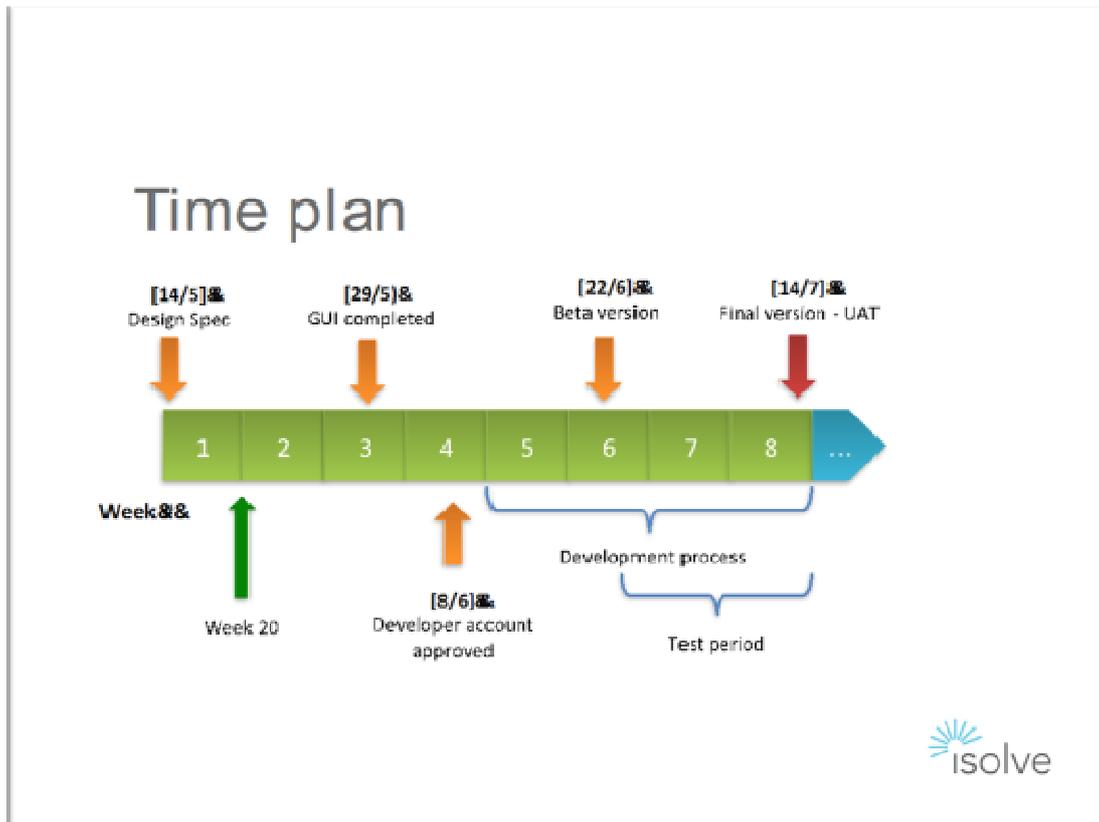


# Evaluation GUI - INE Yearbook

- Icon
- Spalsh screen
- Interface
- Menu icons



## Appendix 2 – Time plan and TTC



## TTC (Time To Complete)

<u>Activity</u>	<u>Responsibility</u>	<u>TTC</u>
Developer account - Fax information to Apple - Provide legal contact	INE	25/5
Graphics - Approve GUI	INE	1/6
Pop ups - Provide diagram information - Provide map information	INE	10/6



## Appendix 3 – App Store details

# Information – App Store



# Information – App Store

- Name
- Description (max 4000)
- Key words (max 100)
- Primary category
- Secondary category
- Support



## Appendix 4 – Project overview (2012-05-18)

### Table of contents

- Background
- Project team
- Prerequisites
- Project objectives
- Time plan
- TTC



### Background

The objective of this project is to transfer INE Yearbook 2010 into a native iPad application and later publish on App Store.

Isolve is aware of the fact that the first transfer of the INE Yearbook is important however, future transfers where INE does the work themselves are even more important. For that reason Isolve will therefore try to include INE in the project as much as possible in order to gain knowledge and understand how the development and publishing process is structured.



## Prerequisites

In order to be able to present a satisfying result Isolve needs INE to:

- Supply good communication
- Prepare Isolve with necessary information
- Be available for project follow ups



## Project objectives

The process including developing and publishing an iPad application can be divided into five objects. Isolve want INE to be involved in as many as possible.

- Register publisher account
- Graphical User interface (GUI)
- Development
- Testing
- Publishing



## **Project objectives - Register publisher account**

The process with register a publisher account for App Store is tightly controlled by Apple. It involves eight separate stages which should be followed in right order otherwise it can results in delays.

This process takes roughly 15 business days until the account is active and ready for use.

Since the Yearbook should be published as an INE publication, INE needs to be involved in this process. For detail specification about each stage, please see the document "Registration\_DeveloperAccount\_AppStore".



## **Project objectives - Graphical user interface**

Based on INE visual identity/graphical profile Isolve will suggest GUI for the project. INE will have the opportunity to evaluate and confirm GUI according to time plan.



## **Project objectives - Development**

As soon as the GUI is confirmed Isolve will start developing and packaging the information as an iPad application. This process does not involve INE participation but Isolve is aware of the fact that INE has the intent to develop upcoming yearbooks by themselves and will document parts of this process.



## **Project objectives - Testing**

During the development process INE will have the opportunity to test beta versions and approve the final version.

After the project is completed Isolve will hand over a comprehensive test document where INE can follow the testing throughout the project.



## **Project objectives** **- Publishing**

When INE approve the result Isolve will publish the application. The publishing process takes normally between 5-10 business days.



**TERMS OF REFERENCE**

**For a short term work**

**Transferring the INE Yearbook to iPad**

**June-July, 2012**

within the

AGREEMENT ON CONSULTING IN INSTITUTIONAL CAPACITY BUILDING,  
ECONOMIC STATISTICS AND RELATED AREAS  
between INE and Scanstat.

Consultants from: Isolve in Sweden Adam Tapper

Counterparts: Salomão Muianga, and \_\_\_\_\_

**Background**

New technologies are creating new possibilities to disseminate statistics meeting the challenges of accessibility and timeliness. In many cases these new technologies are not more expensive traditional means of distribution. An example of this is statistics distributed by SMS that in theory could be accessed by most of the more than 5 million mobile phones within Mozambique even if the devices are of the lower end of sophistication. At the other end there also is an increasing number of smartphones and other advanced reading and communicating devices used by high volume users of statistics. One of those reading devices is the iPad on which Statistics Sweden now for the second year has published its yearbook. Taking advantage of this INE now want a pre study made on how the INE yearbook can be transferred into an iPad application this year and how personnel from INE can do the work for the years to come.

**Objective**

This first transfer of the INE Yearbook to the iPad is important to show presence also in the digital world. If successful it will be followed by a second transfer where INE staff does the work themselves is even more important and will be further discussed when the data for the yearbook of this year is available<sup>1</sup>.

**Expected outputs**

Referring to the Isolve Statistical Yearbook – Pre Study 2012-04-25

Proposal 1– Isolve transfers the most recent INE Yearbook 2010 to iPad Isolve is responsible for:

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<sup>1</sup> Various models are possible for this second step, ranging from building a learning module, be a sounding board to offer on-site training. One possibility is to learn the development from scratch. Another is to let Isolve develop a simple model where INE easily can insert images and text, and from this create the future yearbooks

- Conversion of the raw data for INE Yearbook 2010
- Development and test
- Distribution and publishing of the iPad application in App Store.

Functional requirements:

The application has identical functionality as SCB Årsbok 2012

(<http://itunes.apple.com/se/app/arsbok-2012/id490939451?mt=8>).

- Live search in text
- Menu search
- Possibility to browse chapter by chapter and article by article
- History over last viewed articles
- Possibility to bookmark articles
- Favourite articles
- Share article via mail
- Share application via Facebook
- 10 Interactive diagrams (INE Mozambique chooses and provides data)
- 10 Interactive maps (INE Mozambique chooses and provides coordinates)
- Support for both landscape and portrait mode
- Support for first, second and third generation of iPads
- Support iOS 4.2 or later

Interaction design and Graphical design

The interaction design will be identical to the SCB Årsbok 2012 except for the addition of the:

- Possibility to go to next/previous page by swiping up/down
- Possibility to go to next/previous chapter by swiping right/left

Graphical design will be updated based on INE Maputo graphical profile

([http://www.dst.dk/en/consulting/projects/Mozambique/Reports\\_all.aspx](http://www.dst.dk/en/consulting/projects/Mozambique/Reports_all.aspx))

Text strings are translated.

Isolve is also handling the administration and first-line contact with Apple during the App Store registration process and set up developer account.

### **Options**

If the work of above (Isolve Proposal 1) turns out satisfactorily INE has the option to ask for the transfer also of the Yearbook that will be compiled later this year as specified in Isolve Proposal 2.

During the work the content of a learning component will be further specified by INE and specified in a separate contract.

### **Beneficiaries of the mission**

The target group is composed of users using the iPad to access the SEN Statistical Yearbook.

### **Tasks to be done by INE to facilitate the mission**

- Prepare and supply the consultant with necessary data files, documents and information, like the new visual identity of INE
- Supply good communication conditions for the consultant
- During the work the content of the learning component will be further studied by INE and specified in a separate ToR.

**Source of Funding**

Project: MPD-2008-0011 – Coordenação e Integração Estatística  
PAAO12 – 3.1.1 Construção de Bases de Dados Integrados

**Timing of the mission**

The work will start within 4 weeks after the contract is signed. Development time is 4 weeks.

Time plan does not include Apples publishing process (approx. 5-10 business days).

**Place**

The premises of contractor.

**Language**

English.

**Report**

The consultant will prepare a short final report to be discussed with INE before ending assignment. Statistics Denmark as Lead Party will publish the final version on [www.dst.dk/mozambique](http://www.dst.dk/mozambique) within 3+ weeks of the end of the mission. The structure of the report should be according to Danida format.

*Approved by Cirilo Tembe, INE/DICRE*

Day / / .....

*Confirmed by Luis Mungamba, Contract Manager for the INE – Scanstat Contract*

Day / / .....

## Appendix B – Terms of Reference - Pre Study

April 2, 2012

### TERMS OF REFERENCE

for a pre study on

### Transferring the INE Yearbook to iPad

April, 2012

within the

AGREEMENT ON CONSULTING IN INSTITUTIONAL CAPACITY BUILDING,  
ECONOMIC STATISTICS AND RELATED AREAS  
between INE and Scanstat.

Consultants from: Isolve in Sweden \_\_\_\_\_ and \_\_\_\_\_

Counterparts: Salomão Muianga, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_

#### Background

New technologies are creating new possibilities to disseminate statistics meeting the challenges of accessibility and timeliness. In many cases these new technologies are not more expensive traditional means of distribution. An example of this is statistics distributed by SMS that in theory could be accessed by most of the more than 5 million mobile phones within Mozambique even if the devices are of the lower end of sophistication. At the other end there also is an increasing number of smartphones and other advanced reading and communicating devices used by high volume users of statistics. One of those reading devices is the iPad on which Statistics Sweden now for the second year has published its yearbook. Taking advantage of this INE now want a pre study made on how the INE yearbook can be transferred into an iPad application this year and how personnel from INE can do the work for the years to come.

#### Objective

The first transfer 2012 of the yearbook to the iPad is important but the next where INE staff does the work themselves is even more important. Various models are possible for this second step, ranging from building a learning module, be a sounding board to offer on-site training. One possibility is to learn the development from scratch. Another is to let Isolve develop a simple model where INE easily can insert images and text, and from this create the future yearbooks.

#### Expected outputs

The result of the pre study is a proposal and specification on how to do the transfer, including some images and a fixed price. Different types of learning models will also be included.

#### Beneficiaries of the mission

The target group is composed of staff at DICRE/DISI and DICRE/DDD doing the actual work of publishing.

**Tasks to be done by INE to facilitate the mission**

- Elaborate ToR for the training
- Prepare and supply the consultant with necessary documents and information, like the new visual identity of INE
- Supply good communication conditions for the consultant.

**Source of Funding**

Project: MPD-2008-0011 – Coordenação e Integração Estatística  
PAAO12 – 3.1.1 Construção de Bases de Dados Integrados

**Timing of the mission**

The feasibility study should begin 16 April 2012 and be ready within two weeks thereafter.

**Place**

The premises of contractor.

**Language**

English.

**Report**

The consultant will prepare a short final report to be discussed with INE before ending assignment. Statistics Denmark as Lead Party will publish the final version on [www.dst.dk/mozambique](http://www.dst.dk/mozambique) within 3+ weeks of the end of the mission. The structure of the report should be according to Danida format.

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