Structure of documentation
for optical module assembly
Km3Net-Italia

Massimo IMBESI

QAQC Workshop

30-31/01/2014   AMSTERDAM

What We Need ?

We want to be sure that the assembly procedure is correct and repeatable;

We need to control Optical Module process integration, we want to track every part in the Optical Module;

We have to produce Optical Module Assembly Documentation; **Clear Simple Complete**

Analisys & Modelling

➢ **Collect technical information using Assembling procedure;**

➢ **Ceck all "input" ;**

➢ **Define structure of documentation.**

The Document

➤ **Document is composed of detailed excel sheets;**

➤ **In some of these you can find details for several components of Optical Module;**

➤ **In other excel sheets for example the operator can write the information about serial number.**

INFN Object IDentifier
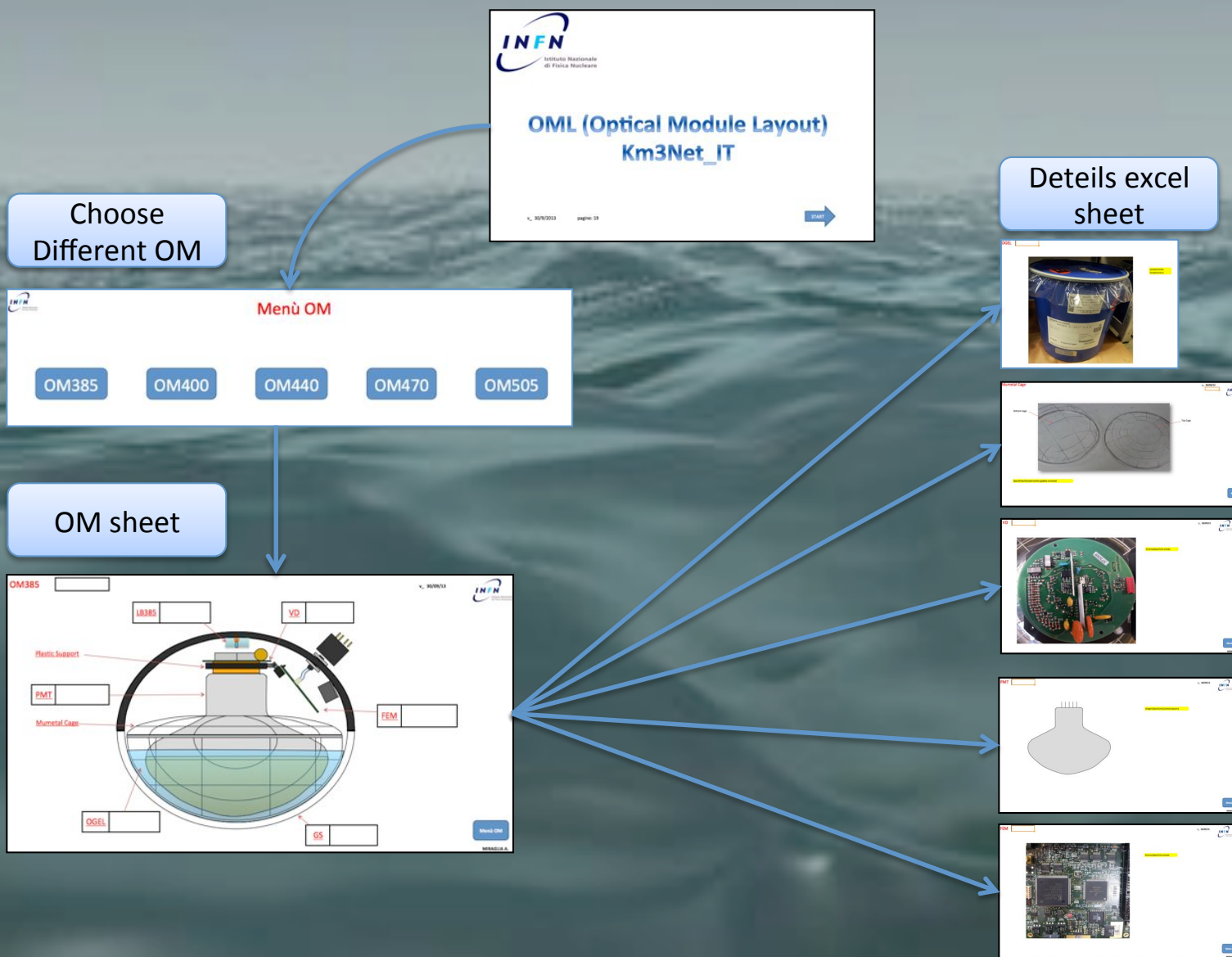
➢ **Every component is identify with a single code :**

INFN OID ;

➢ **INFN OID = (INFN P/N + Serial number);**
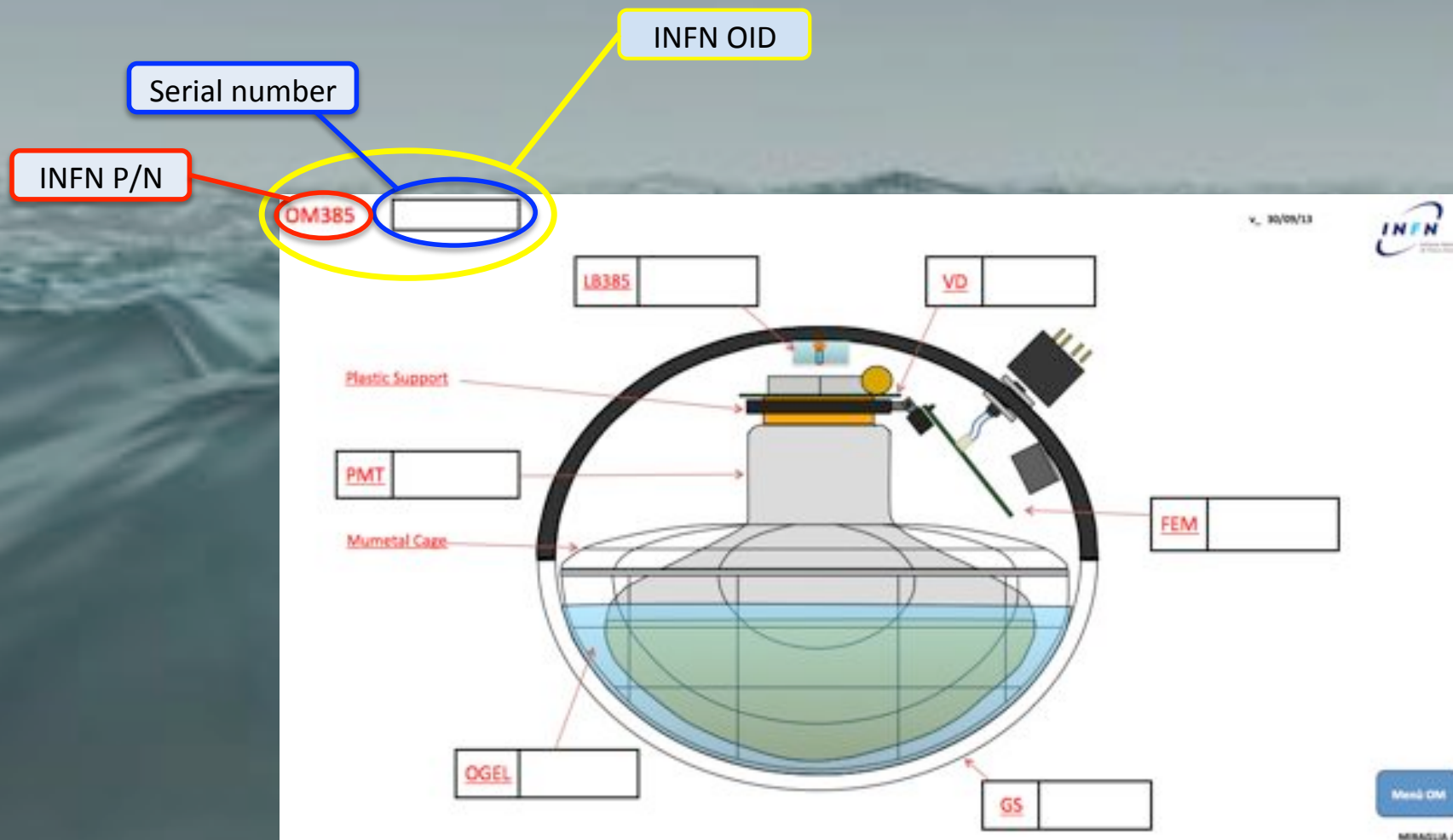
➢ **INFN P/N is defined by INFN people;**

➢ **Serial number is provided from company supplier and identify the object after product process..**

➢ **INFN OID uniquely identifies the single object.**

Structure of Excel document

OM Assembling Form

Glass Sphere Detail
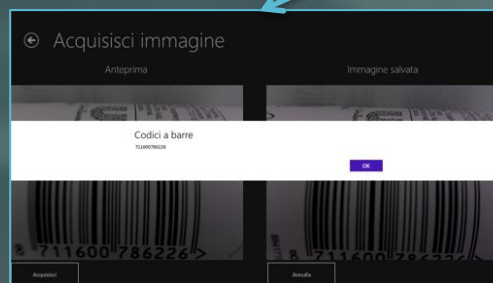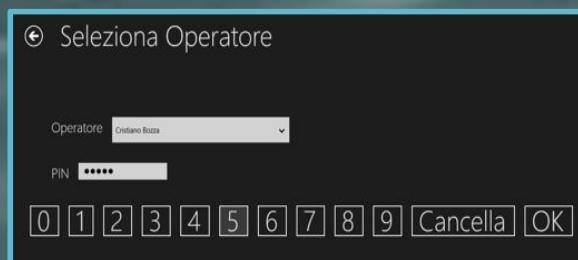
User-friendly GUI app for tablet PC developed to assist/manage integration

By Cristiano Bozza

Example Screenshot from App

Conclusions

➢ **The Module Assembly document has been the basis for the subsequent development of a mobile application software to support the Optical Module integration;**

➢ **The information of the Optical Module assembling will be Integrated in a online database ;**

➢ **Each module will be tested at the end of the assembling process;**

➢ **Each module will have an ID document that will report all the information of each part;**

Thank you