A Personal Dosimetry system in a box

Chris Perks and Marc Million,
LANDAUER EUROPE

Objectives

- To provide a complete dosimetry system that:
  - Does not rely on sophisticated services.
  - Is highly reliable / Low maintenance.
  - Is easy to operate.
  - Complies with International standards.
  - Suitable for small numbers (low automation)
  - Is easy to transport
- Based on existing systems
  - Well characterised (cf IEC/ISO standards)
  - Good back-up

Inside the box....

The dosemeter - InLight

- Optically Stimulated Luminescence (OSL)
  - Widely used worldwide
  - Re-readable
  - Easily read
- Reusable components
- QCs and Calibrations

Reporting

- Simple reporting system on Laptop
- Export data to external data base

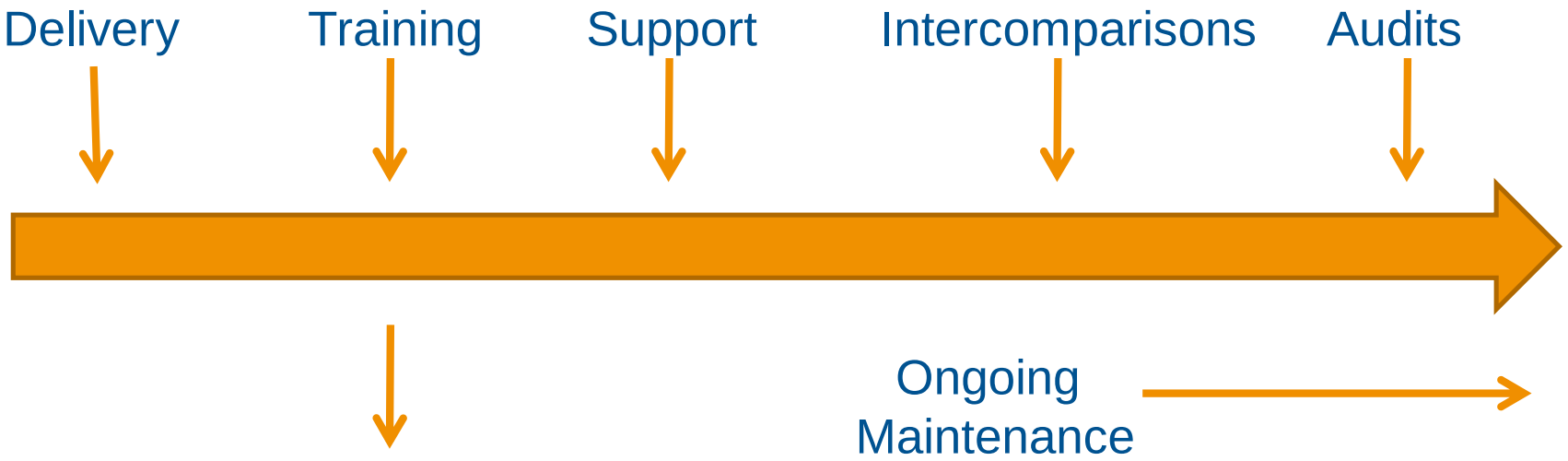
Dose Report

January 2010

Printed: 03/09/2010

Participant ID	First name	Last Name	Month		Quarter to date		Year to date		Lifetime	
			Hp(10) /mSv	Hp(0.07) /mSv	Hp(10) /mSv	Hp(0.07) /mSv	Hp(10) /mSv	Hp(0.07) /mSv	Hp(10) /mSv	Hp(0.07) /mSv
		Control								
2	FNAME2	LNAME2	0.07	0.07	0.07	0.07	0.07	0.07	0.46	0.46
4	FNAME4	LNAME4	0.07	0.07	0.07	0.07	0.07	0.07	0.37	0.37
1	FNAME1	LNAME1	0.06	0.07	0.06	0.07	0.06	0.07	0.31	0.32
3	FNAME3	LNAME3	0.07	0.07	0.07	0.07	0.07	0.07	0.18	0.18
5	FNAME5	LNAME5	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

.....thinking outside the box.



- How to run service
- Technical aspects of the system
- Quality Assurance
- Accreditation
- Routine maintenance

Other aspects

- Documentation
  - Type testing and performance
  - Manuals, instructions and operating procedures
  - Quality Assurance
- Training
  - Can be done in-house or at location
- Support
  - Return of equipment to maintenance hub
  - Telephone / e-mail / skype
  - Re-assessment of dosemeters

Experience

- Chad
- Gabon
- Afghanistan
- Pakistan
- Cameroon
- Seychelles
- Eritrea
- Mauritania
- Benin
- Mauritius

LANDAUER EUROPE

Thank you