



NATIONAL DOSE REGISTER PROJECT STATUS

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National Nuclear Regulator

Contents

- Background
- Project Implementation
- Design and Customisation
- Testing
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- Remaining Milestones

International Basis

GSR Part 3: Requirement 25,
paragraphs 4.63 and 4.64

- Regulatory Body makes provision for establishing and maintaining records of occupational doses
- The regulatory body may or may not be the sole entity responsible for the maintenance of these registers and inventories
- Regulatory Body involved in their proper retention and use
- Authorized parties responsible to keep their own records

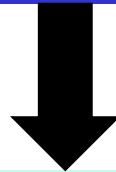
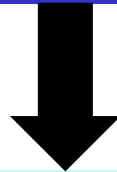
European Union BSS

Results of individual monitoring submitted to a NDR established by each EU Member State

Other Countries establishing and maintaining National
Dose Register

National Situational Analysis

- Joint Coordination Committee, NNR-DOH Working Group
- 2007 meeting with DSP's (host of NDR, legislation)
- Working Group Study after Regulatory Self Assessment
- Proposal with International practice, available databases, location, RDR
- Accepted by the JCC, NNR Board, meeting with DPs in 2012
- Approved by IAEA and included in National Project



- No explicit legislative requirement for NDR
- No central registry for occupational radiation doses
- No real harmonisation of records and reporting systems
- SSRP requirement for each authorization holder
- Draft Regulations for Nuclear Industry

Benefits of NDR

Integrated system of occupational records

Confidence in record keeping process

Evaluation of dose trends and statistics

Reporting purposes, e.g. annual reports, UNSCEAR

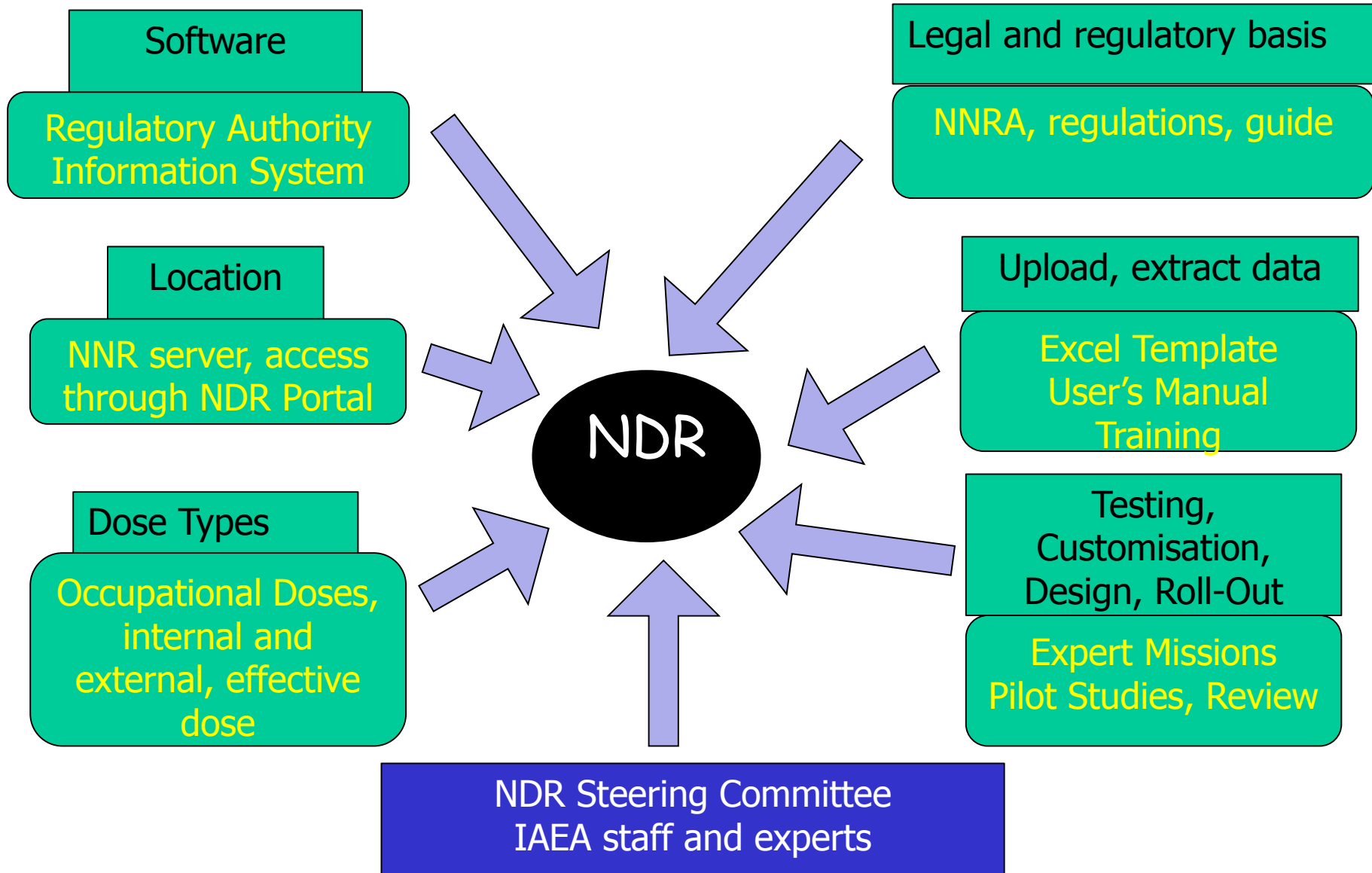
Health research and epidemiological studies

Providing dose histories for work planning

Compliance with related dose limits

Compensation and litigation cases

NDR project



Regulatory Authority Information System

Infrastructure information

Facilities
Radiation sources, equipment
Authorization
Inspection
Enforcement
Workers

Additional items
Radiation events,
Occupational exposure
Technical services

Selected Facility:
Selected Department:
User name: Administrator

RAIS 3.2 Web
Regulatory Authority Information System

Administration | Regulatory System | **Input** | Query | Statistics | Tools | Message Box | Help | Logout

Facilities and Departments
Sources and Associated Equipment
Associated Equipment
Radiation Generators
Sealed Sources
Unsealed Sources
Authorizations
Inspections
Enforcements
Radiation Events
Workers and Tasks
Technical Services
Manufacturers and Models

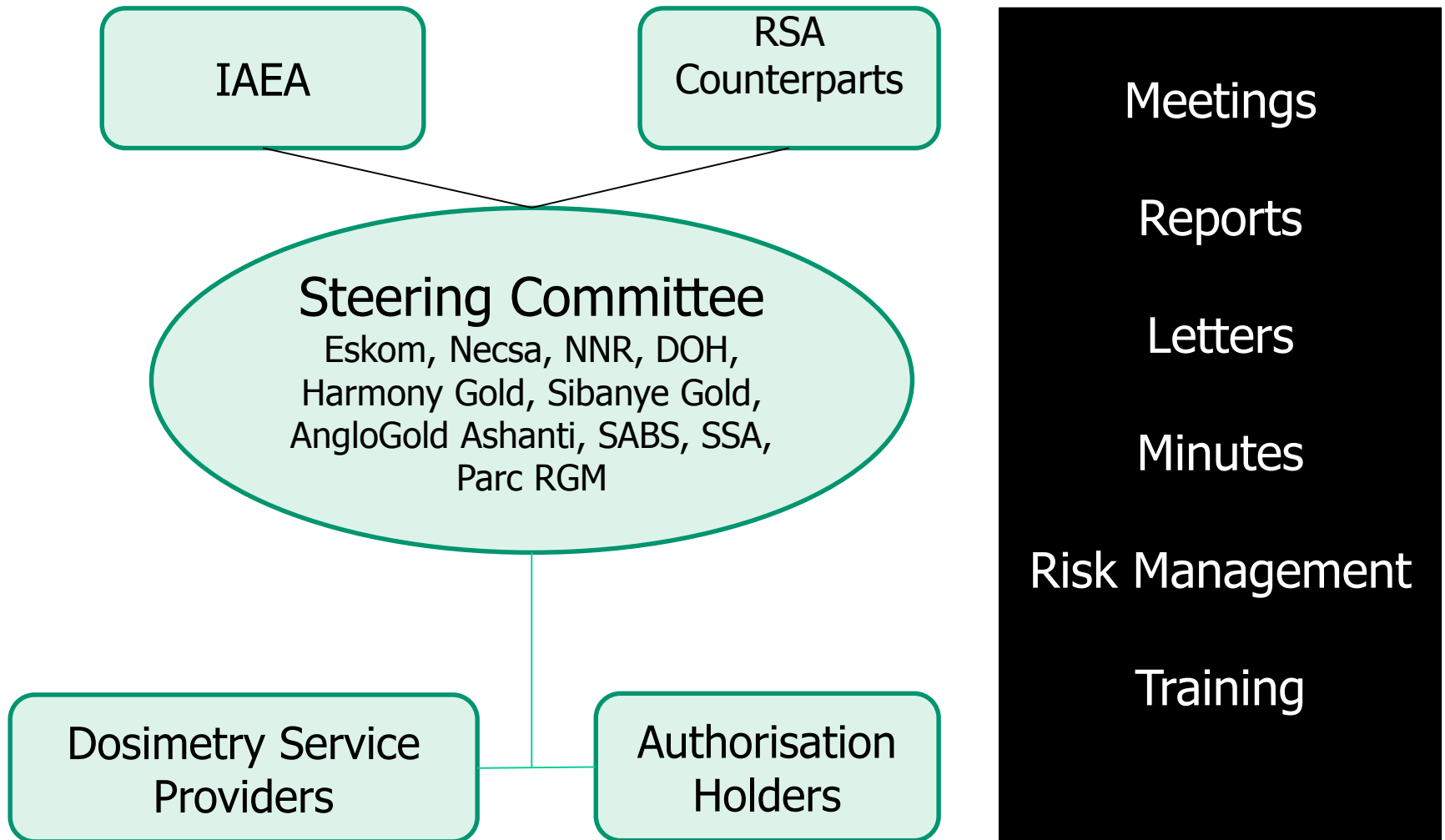
Select Sealed Source

Manufacturer

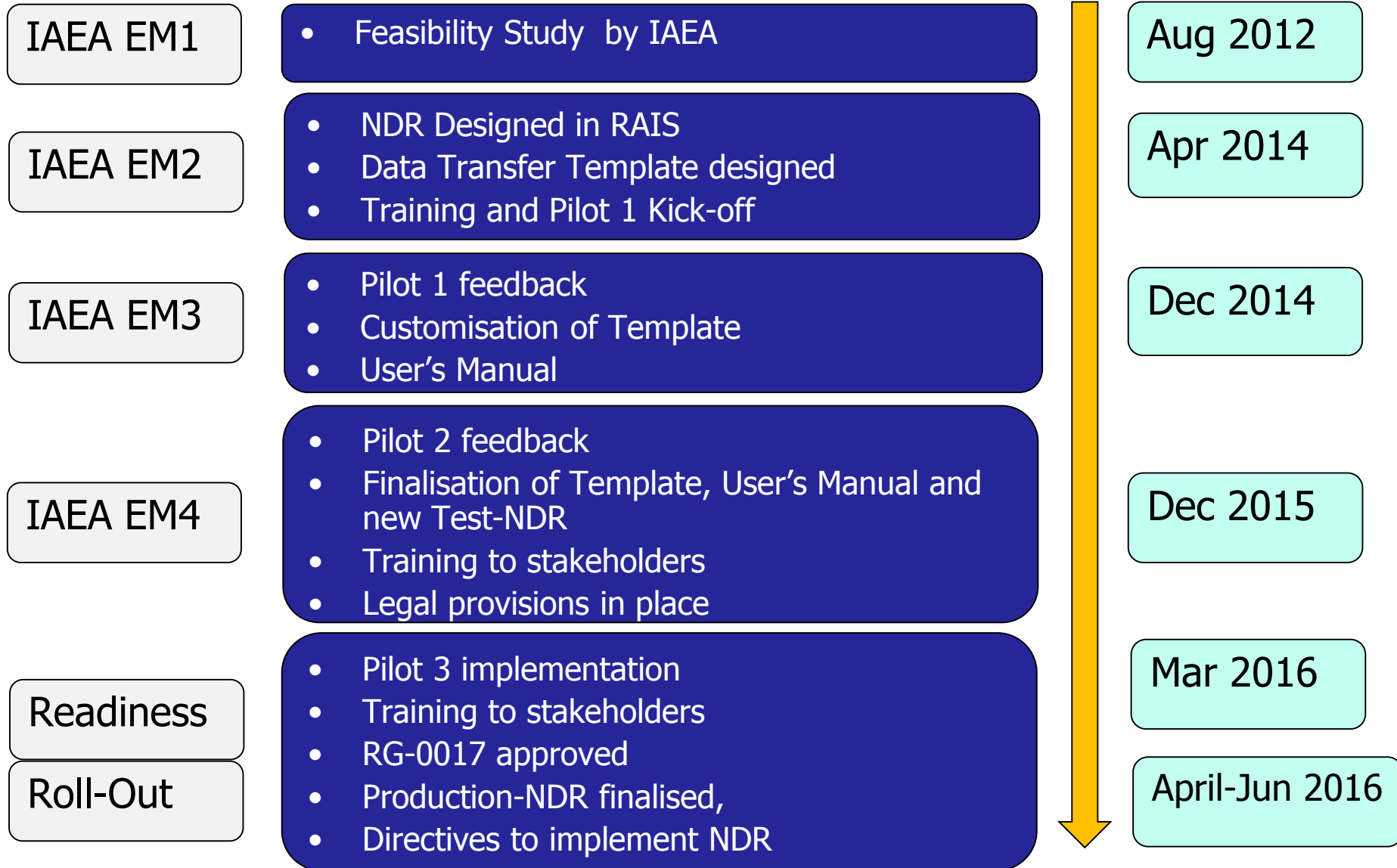
Model

View Add Delete Query

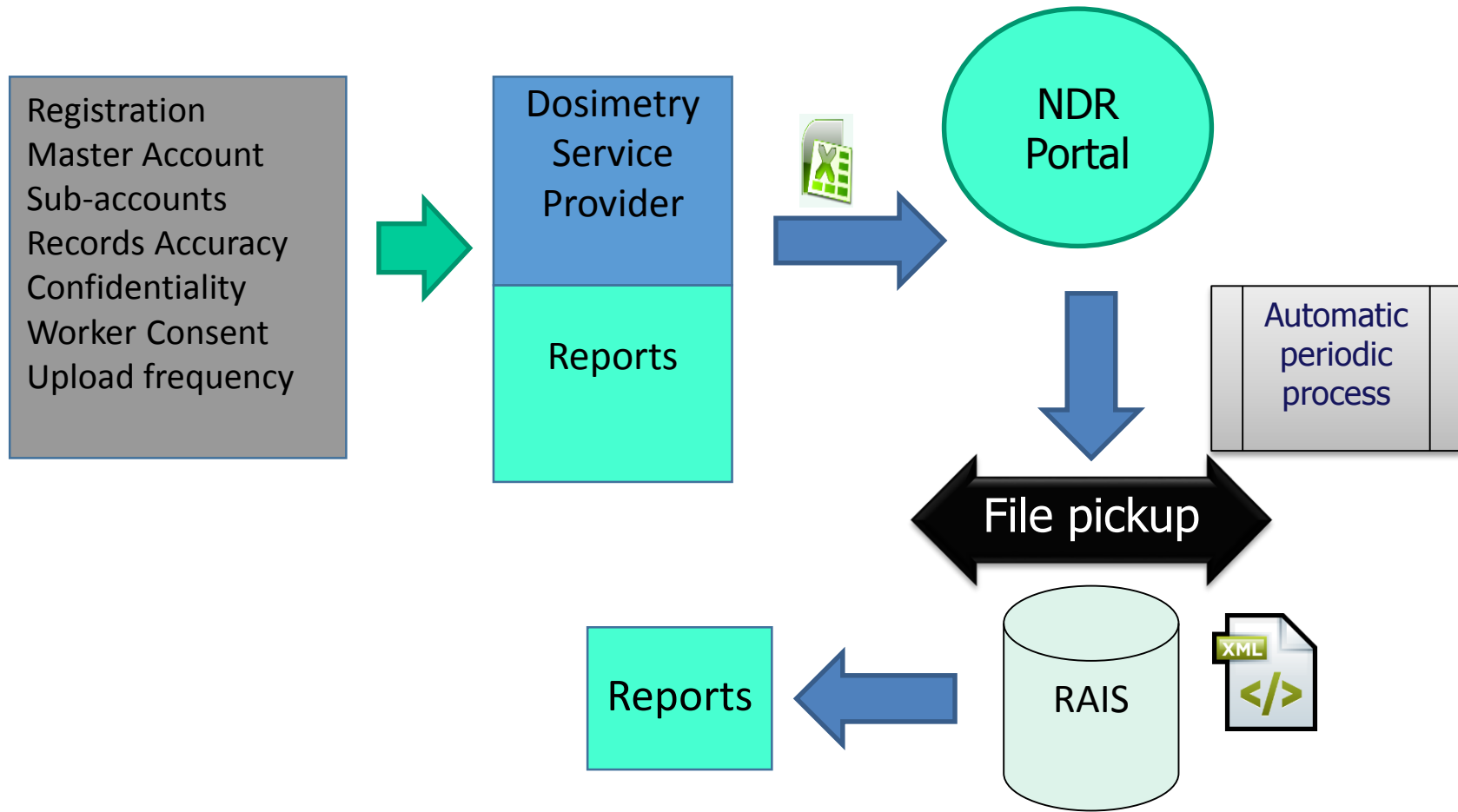
Project Management Structure



Project Phases



Data Transfer and Upload



Data Transfer Template

- Regulatory Authority Number (RAN), token
- Company Name, ID Type, COR #
- Worker Name, Initials, Identification (ID, Passport, Industry Number, SABS number)
- Worker Status and Activities
- Effective Dose, Period Begin/End, Exposure Type
- Additional Dose Information (Radiation Type, Dosimeter Type, Body Part, Corrected Dose)
- Reference List (Country Name, Practice Code)
- NDR User's Manual to fill and upload template
- Regulatory Guide 0017 specifies process

Upload of Data

- 1 master account per Data Provider (DP)
- Responsible for subaccounts, accuracy of data
- Dose upload in line with authorisation conditions
- DPs responsible/liable for confidentiality, consent and control (internal policy)
- Worker consent form kept in medical file, once off consent
- Printable auditable trail / report
- Upload of all available historical data
- NNR holders upload all dose data (also sources)
- SABS exclude all data for NNR holders
- Demonstrate successful upload of 2 files

Report Types

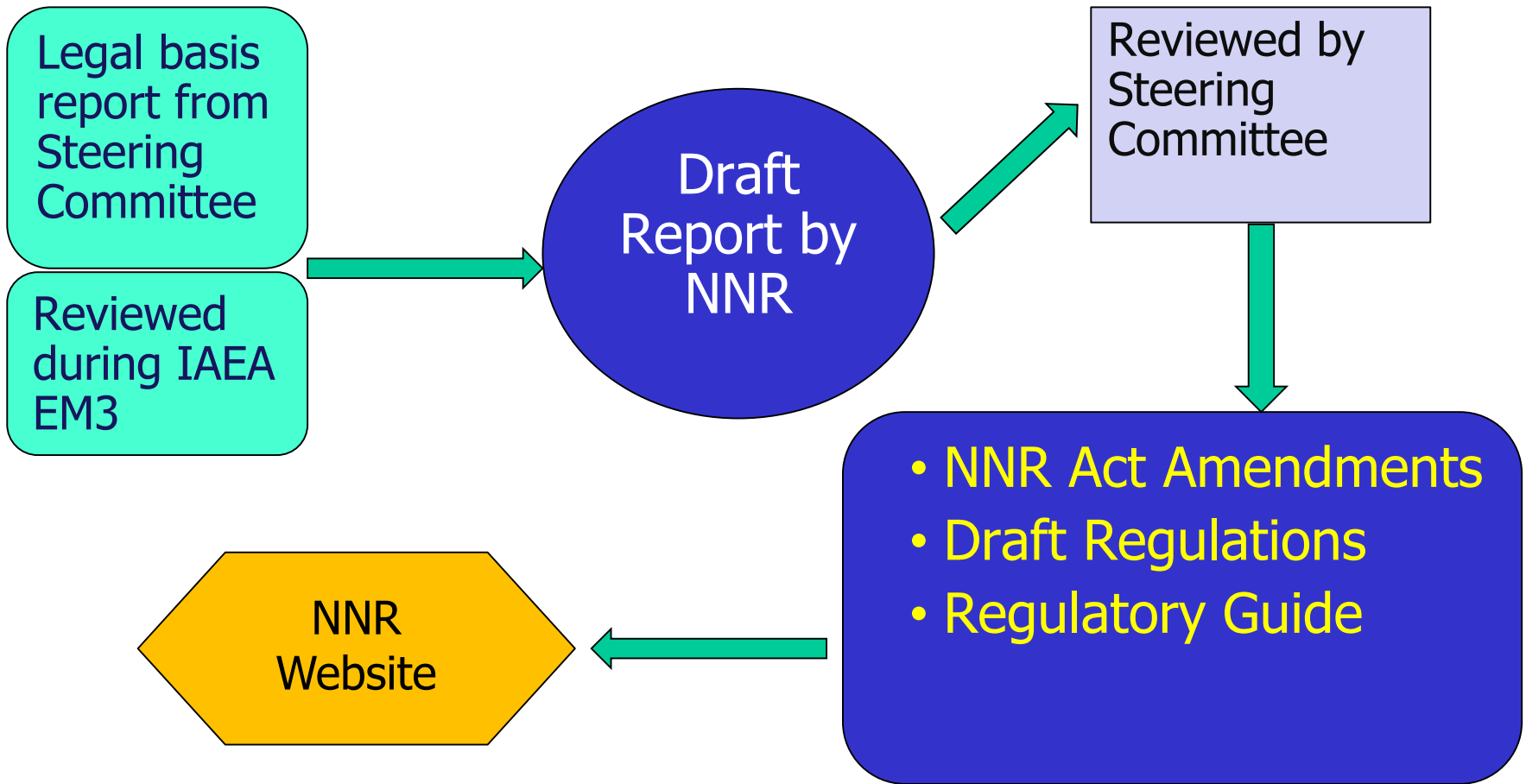
Data Providers

- Total Dose all pathways
- Calendar Year Dose
- Year to Date Dose
- 5 year block

Regulatory

- Average Annual Effective Dose for all workers regulated by NNR
- Annual Collective Effective Dose for all workers regulated by NNR
- Number of workers exposed at different levels e.g. <0.1, 0.1-5, 5-10, 10-15 and 15-20 and 20-50, > 50 mSv/a
- Max individual dose for each sector

NDR Legislation and Standards



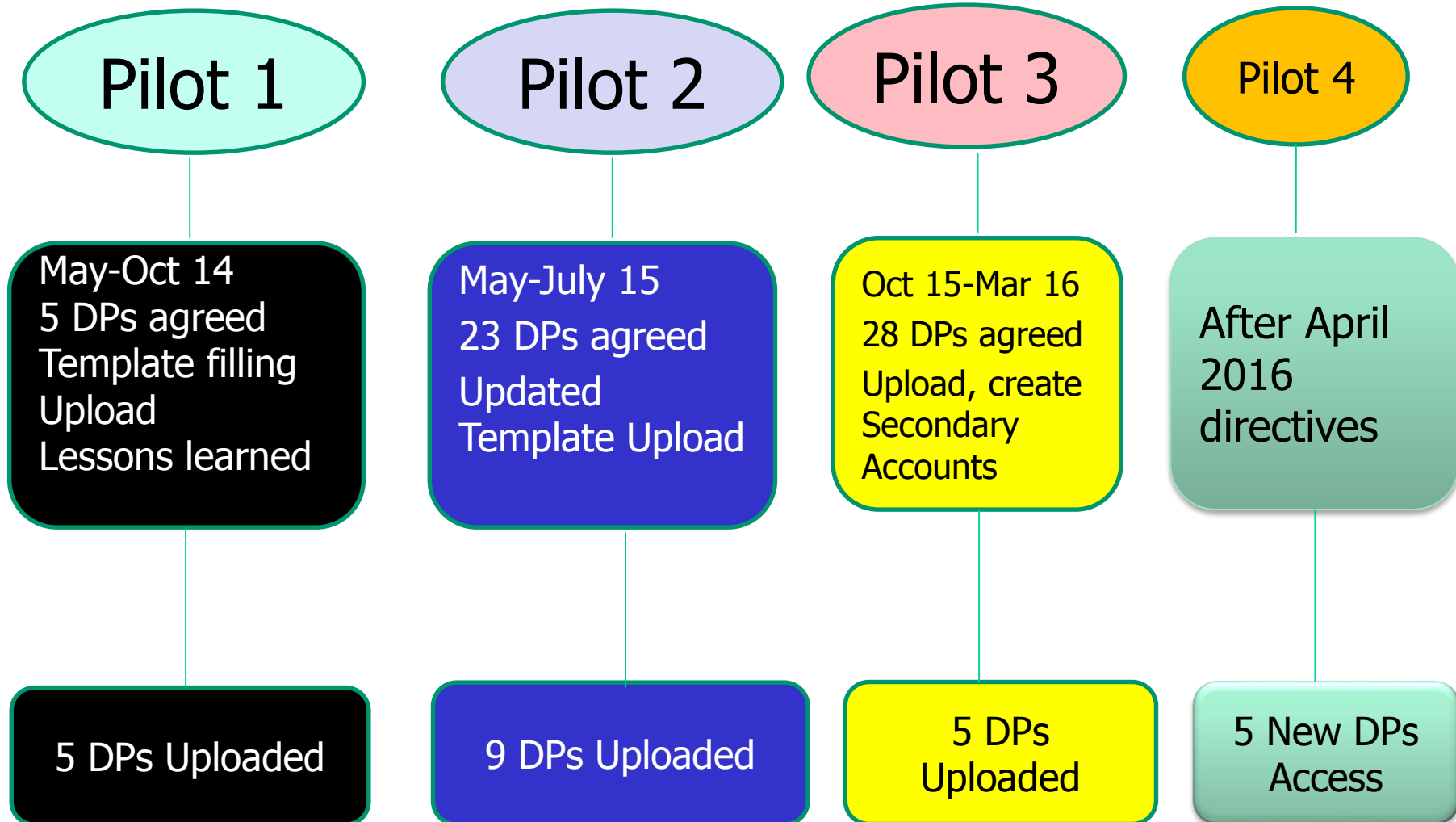
ICT Strategy

- NDR Test and Production NDR
- SQL Standard for Production NDR
- Capacity, Security of NDR
- Backing up and Archiving of Data
- Reports, checks to ensure accuracy of data
- IT and Administrator Manual

Training of NNR staff on RAIS, SQL etc.

Support to Data Providers with access, uploads, errors

Testing of NDR



SC and EM4 outcomes

- Template v1.5 changes relate to mandatory practice codes, ID, gender, nationality
- Frequent reminder to upload data
- Email address for all NDR issues (contact us) and help function (Manual)
- NDR Refresher sessions
- Practice first before allowed to use Production NDR
- Test NDR active throughout
- Directives to upload data in interim
 - 1st upload on Production NDR end of April 2016
 - 5y effective dose block by end of April 2016
 - Historical doses detailed fields later

Remaining Milestones

Jun 16

Training and awareness
Handover of NDR

Sept 16

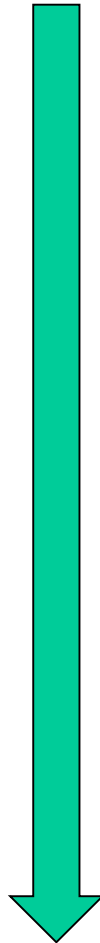
Implementation Report

Dec 16

Implementation Report

Mar 17

Historical Records
NDR Review EM



Access to NDR
Upload on Test-NDR
Upload on Production-NDR