



LIMS: ICRISAT



Overview

1. LIMS Concept @ MAHYCO

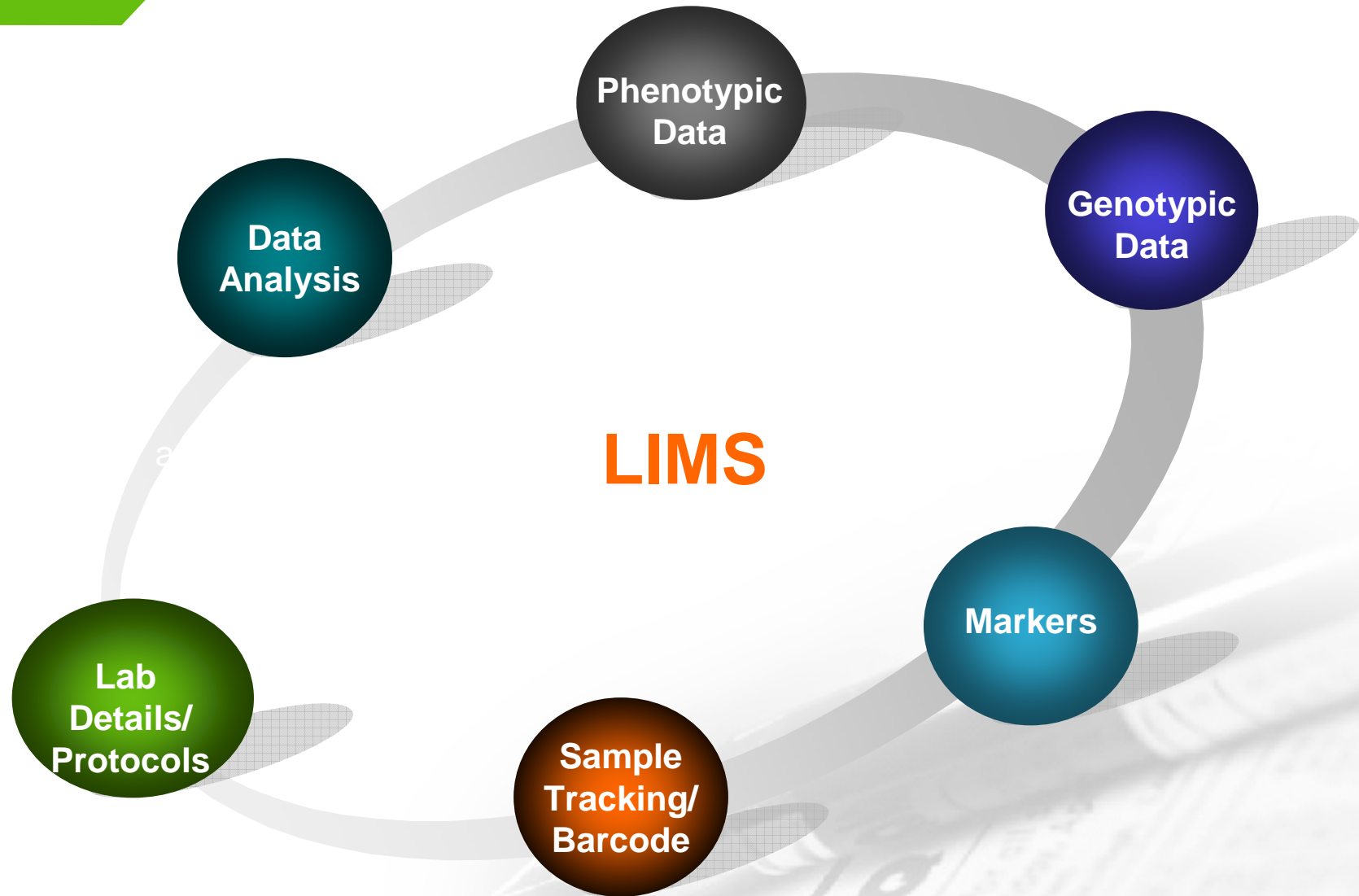
2. Objectives

3. Data Generation/Capture

4. Hardware Resources

5. Our Experience @ ICRISAT- LIMS

LIMS Concept @ MAHYCO



Objectives

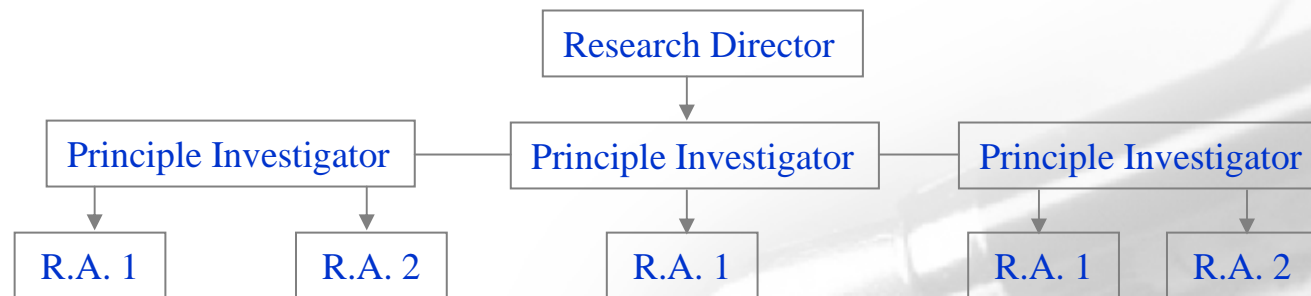
☆ Central data management system for several crops

🕒 Organized repository for

- Marker Resources (Primer information)
- Genotypic & Phenotypic data

🕒 Remote access to the program (client-server)

🕒 Multilevel access with respect to different users



Objectives

⌘ Difficulties in getting commercial product

- Cost
- Customization
- Time to develop our own

* **Would like to customize for other applications with some modifications.**



Data Generation/Capture

- ① Gel based approaches:
 - ~ Silver staining and scoring/ documentation in flat file format
- ② SSR analysis using ABI377 and GeneScan
- ③ Integration of barcode into data generation/capture to enhance the accuracy and efficiency of highthroughput genotyping

Hardware Resources

- Bioinformatics Server Specifications:

Processor:: 64-bit, Dual Core Xeon

Operating System:: Windows 2003 Server



Our Experience with ICRISAT- LIMS

- Technical Difficulties:
 - Language Versions
 - Data export in excel

- User Level Difficulties:
 - Data flow during data entry
 - Analysis of data by allelobin software

Bioinformatics Team @ MAHYCO

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Thank You