

Concern

How to enhance Utilization of Sophisticated Instruments in the Institutes leading to Improvement in Performance, Relevance and Impact (PRI) of the CSIR Institutes?



Team Members

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Preamble

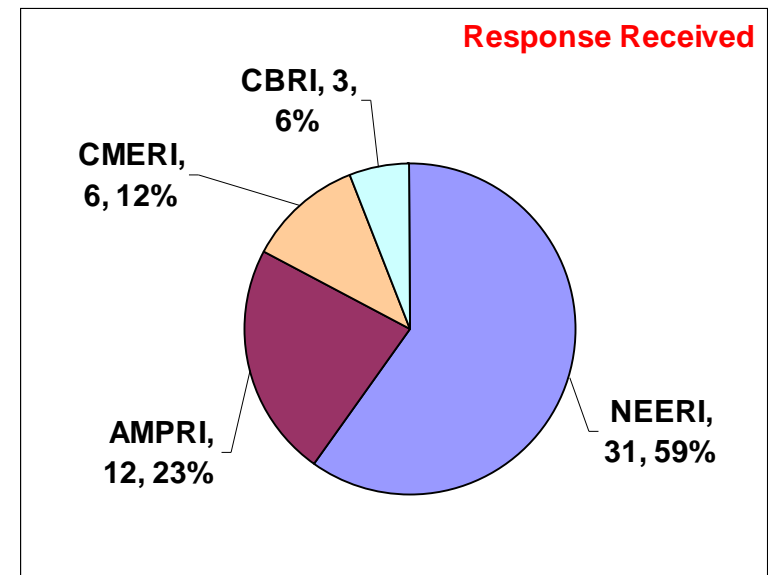
- **CSIR Institutes have number of sophisticated and costly instruments**
- **Additional instrumental facilities are upgraded annually under various schemes/projects**
- **Lack of awareness of available instrumental facilities and their capabilities**

If the availability/ capabilities of sophisticated costly instruments are known to the entire scientific group that may help in better utilization of the available facility leading to enhancement of PRI of the institutes & CSIR

Assessment of Problem: Methodology

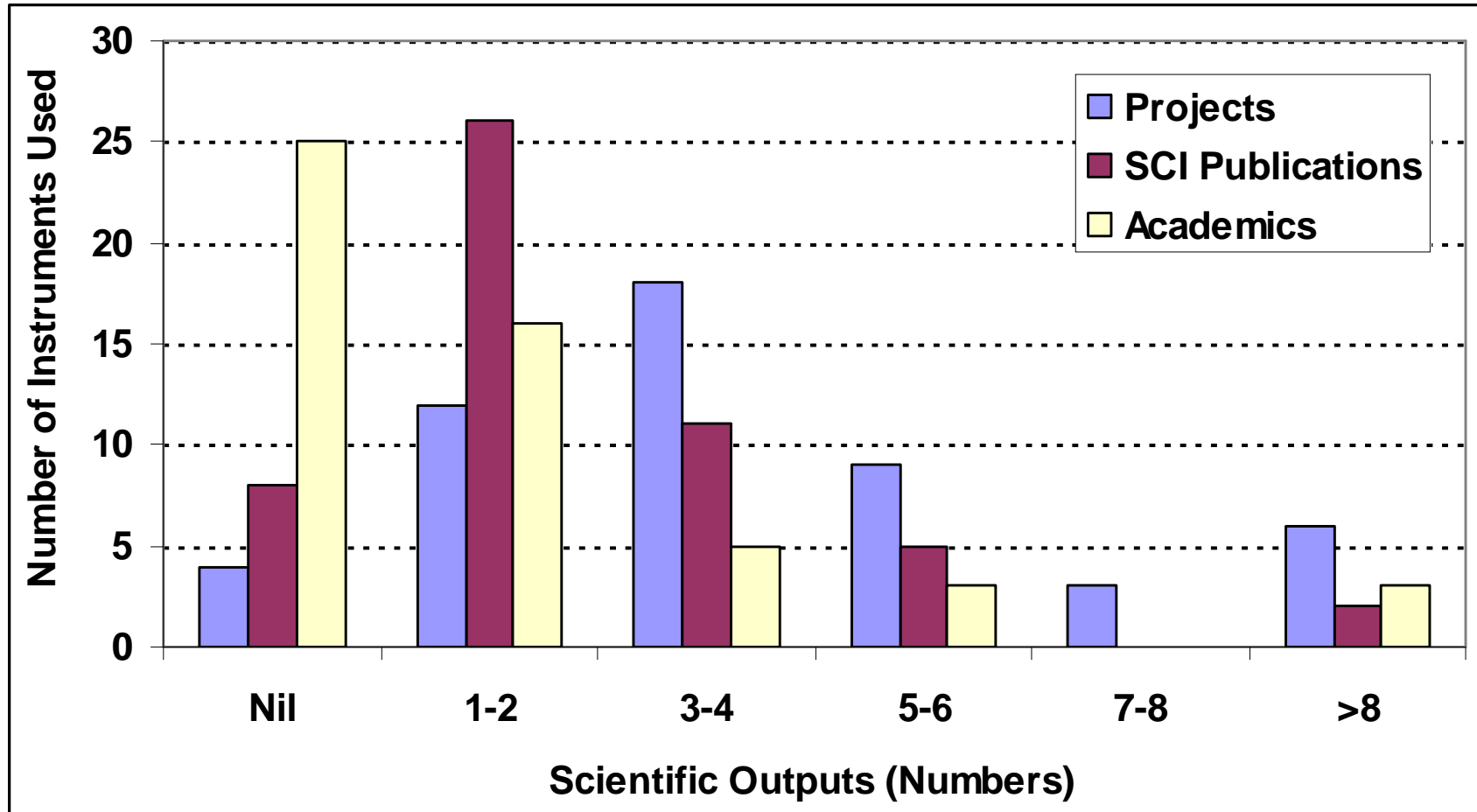
➤ Survey in 4 CSIR Institutes

- Basic details of instruments
- Utilization status
- Scientific output
- Overall assessment
- Reasons
- Suggestions

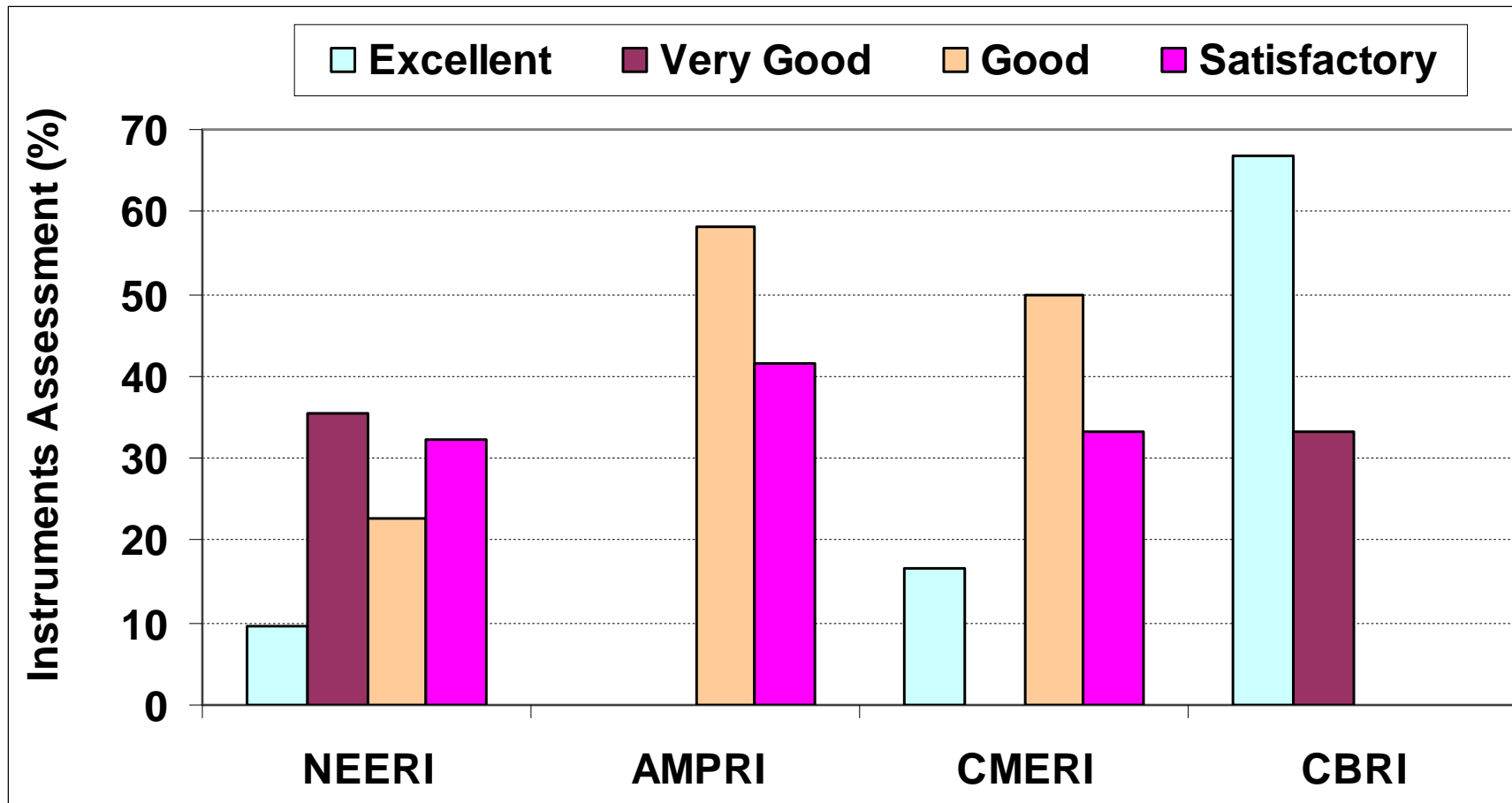


Survey Findings...

Instruments - Scientific Output



Overall Assessment



Survey Conclusions

- **Overall assessment of instruments utilization indicates that there is scope for more usage**
- **Instruments available at the Central Facility are better utilized. Similar instruments available in different divisions are under utilized**
- **Instruments at Central Facility are better maintained with less downtime**

Real Problem

How to improve awareness of scientific users so as to achieve the optimum utilization of Instrumental Facilities existing in the CSIR institutes?

Suggestions for Improvement

- **Increase Awareness**

Prepare master list (with basic details) and communicate through

- **Internet/intranet**
- **Printed catalogue/booklet (3 yearly update)**
- **Annual Magazine/Newsletter**
- **Display at Institute's exhibition**

Contd...

Suggestions for Improvement

- **Strengthening of Centralized Instrumental Facility**
 - **Enhance instrumentation capability**
 - **Adequate infrastructure**
 - **Trained technical manpower**
 - **Periodic training to users**
 - **Sharing of technical support**
 - **Recognition**

Envisaged Benefits : Tangible

- **Better quality scientific output**
 - Reduction in project delays (10-20%)
 - Increase in publications (min 4 per lab/yr)
 - Publication in high impact factor journals (increase by min. 5 CIF/year/lab)
- **Reduced down time (< 5%)**
- **Optimal utilization of financial resources**
(Saving: approx. Rs. 20-25 lakhs/yr/institute)

Contd...

Envisaged Benefits: In-tangible

- **Better awareness/understanding**
- **Utilization by other CSIR institutes**
- **Improved networking and R&D collaboration**
- **Better functional conditions**

Implementation of the above proposal will lead to enhancement of PRI of the individuals, institutes, CSIR and the country as a whole in terms of project activities, SCI publications and other measurable parameters.

Thanks

- **Respondents**
- **Mentors**
- **Senior LDPians**
- **Sponsors**