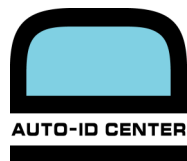


# **TOWARDS RFID PERFORMANCE BENCHMARK TESTS**

**NOEL EBERHARDT, RESEARCH CONSULTANT**



## IN RETROSPECT...



***THE SMITHSONIAN, WASHINGTON D.C.***

***Nov. 1999***

Confidential - for Auto-ID Center Sponsors only



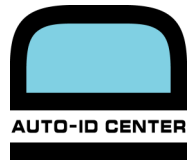
## PURPOSE & OBJECTIVE

- Establish sets of RFID tag & reader performance tests that can be used to determine compliance with Auto-ID standards
- Establish minimal level of performance expectations
- Obtain inputs from all sponsors

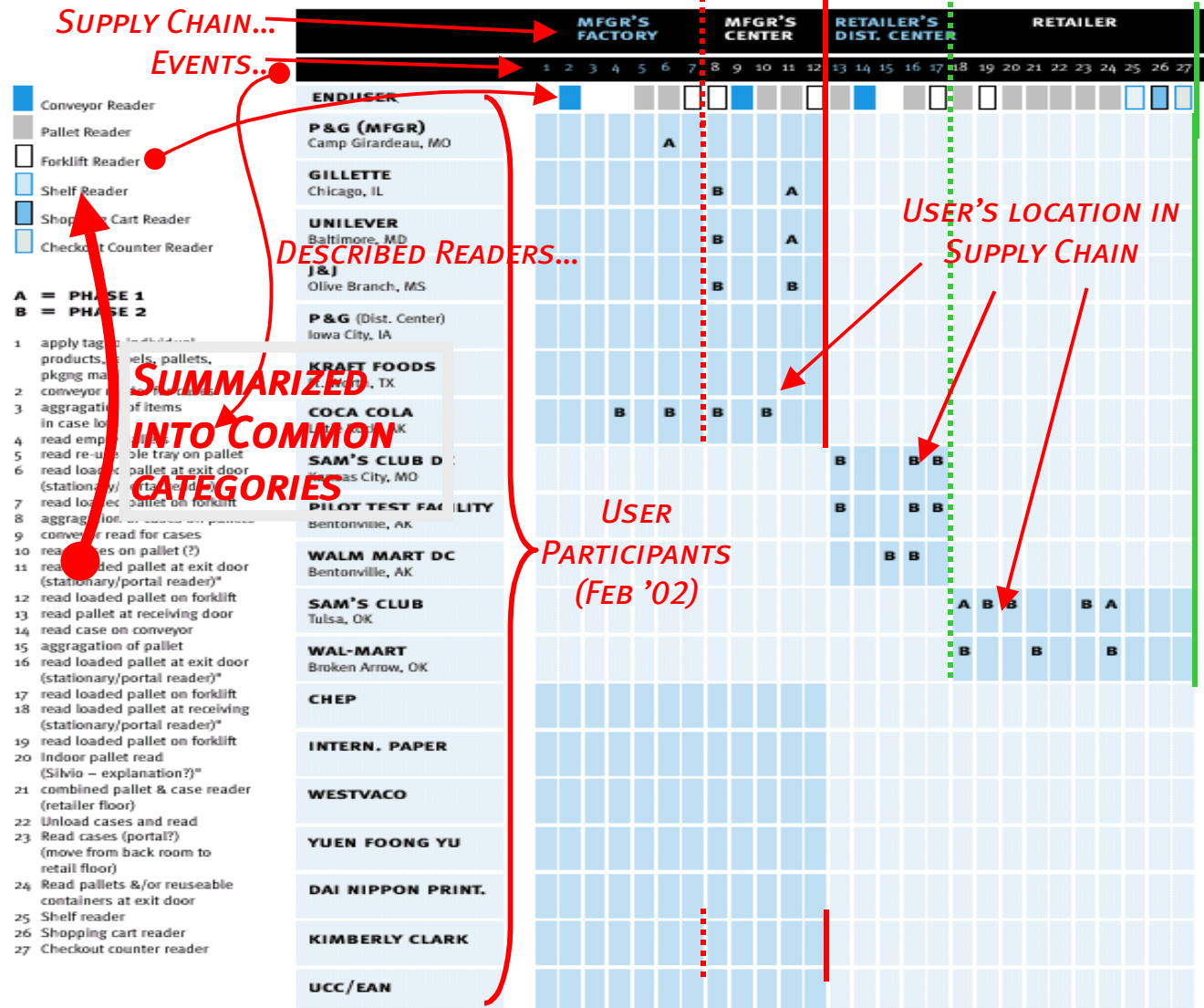


## SOURCES FOR ESTABLISHING CRITERIA

- End users  
...solicit expectations
- Technology Suppliers  
...solicit capabilities
- Field Tests...  
Reader application chart, (ref. White Paper, pg 13)  
“Real-world” experiences



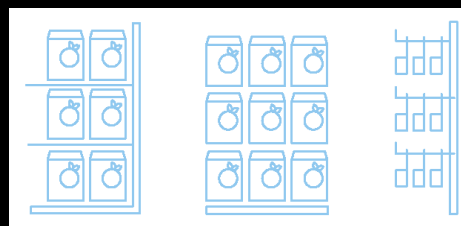
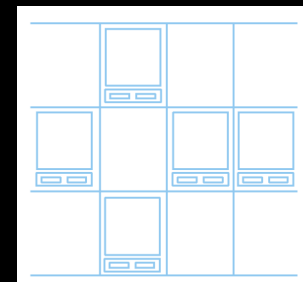
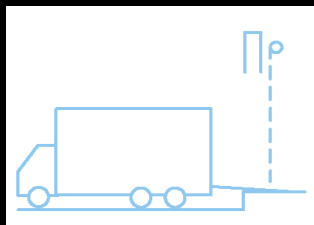
# FIELD TEST READER APPLICATIONS





## APPLICATIONS...

- Portal
- Forklift
- Conveyor
- Warehouse “pigeon hole”
- Retail shelves & racks
- Handhelds
- Checkout counter





## ABOUT RFID...

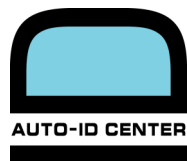
- “How far” and “How many”?
- 100% reading capture unlikely...  
But 100% reading accuracy important
- Over specification can raise costs



## OUTPUT FROM THIS PROCESS

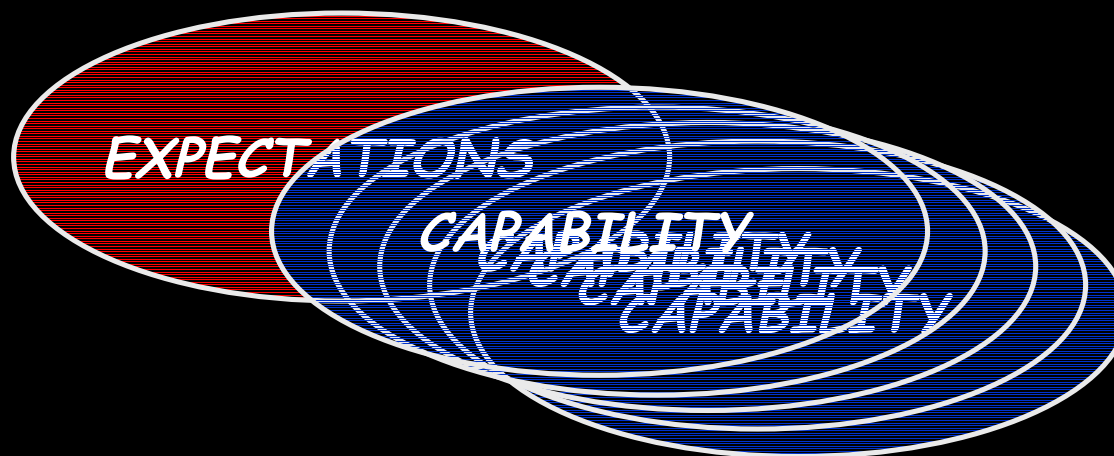
- Benchmark Performance Test definitions
- Test implementation recommendations





## CHALLENGE

- Maximum overlap of End Users' expectations and Suppliers' capabilities

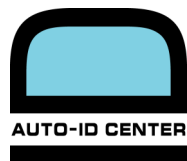




## CONCLUSION

- Benchmark Performance Tests will evolve from your inputs on...

*Expectations and Capabilities*



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