



**material handling**  **logistics conference**  
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# Software Road Map And Discussion

Track 7 Session B



Supply Chain  **Forward.**

**Tom Alfredson**

**Director – MHS Software**

**HK Systems**

**[Tom.Alfredson@HKSystems.com](mailto:Tom.Alfredson@HKSystems.com)**

**262.860.6538**

# Abstract

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- ▶ **HK Systems has initiated the development of new software to accommodate the unique needs of the Hybrid Automated Library Systems. This session will detail the development plans of the software together with ideas on how certain features can be incorporated into existing Automated Library Systems. The needs, wishes and perceptions of the audience will be critical to assuring that the next release of this critical software matches the library's goals.**

# Agenda

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- ▶ **Introduction**
- ▶ **Software Roadmap**
- ▶ **New Features**
- ▶ **Upgrades**
- ▶ **Demonstration**
- ▶ **Explore Features and Issues**
- ▶ **Key Takeaways**
- ▶ **Questions**

# Introduction

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- ▶ **HK Systems' Automated Library System Software is developed by layering a set of library specific extensions on HK Systems' *HKEMS* Product. The result is a patron invisible application that tracks the storage and retrieval of circulation items.**
- ▶ ***HKEMS* is an integrated material handling application that provides control of automated equipment for the purpose of receipt, storage, and delivery of containers within a facility.**

# HKEMS



## ACS

**AGV Control System**

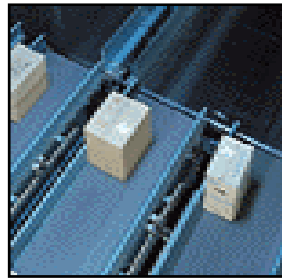
Vehicle Scheduling  
Scheduling / Routing  
Traffic Management  
AGV Equipment Control



## CHEC

**Case Handling Equipment Control**

Labeling  
Sortation  
Wave Management  
Conveyor Control



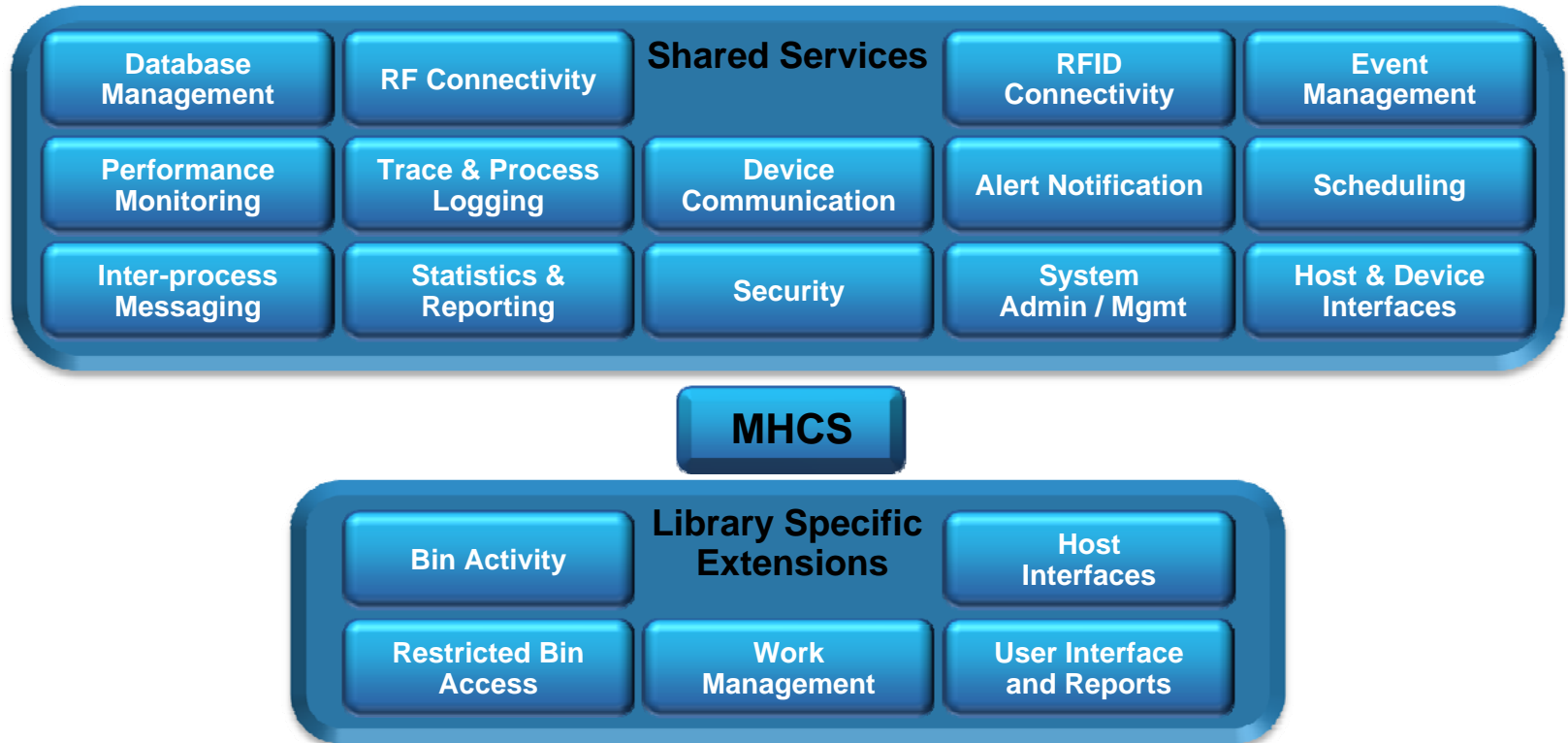
## MHCS

**Material Handling Control System**

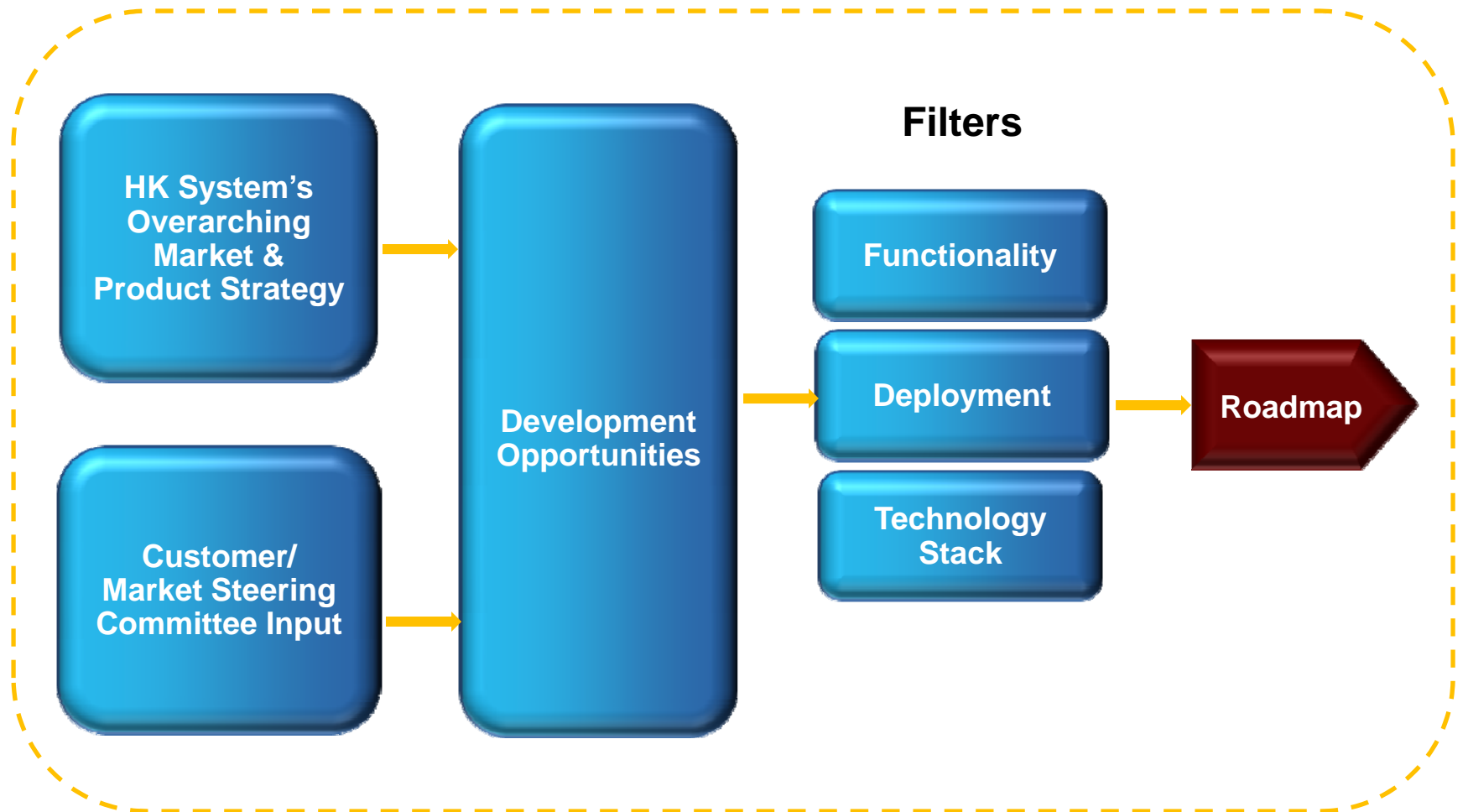
Inventory Control  
Storage Management  
Equipment Scheduling  
SRM Equipment Control



# HKEMS - Library Extensions



# Product Roadmap Process



# Release Summary

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## ▶ 9.0 New User Interface

- ◆ May, 2007
- ◆ 1 – Click Deploy, Custom Filters, Hyperlinks
- ◆ Customizable Graphic Display
- ◆ Active Directory Server Support
- ◆ Alert Dispatch (e-mail)

## ▶ 9.1 Enhance AGV Features

- ◆ January, 2008
- ◆ AGV Dynamic Rescheduling and Reallocation
- ◆ Battery management
- ◆ Enhance Eagle and Odyssey support

# Release Summary

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## ▶ 9.2 Enhance Deployment Capabilities

- ◆ January, 2009
- ◆ Increase Flexpoint Support
- ◆ Enhance standard host interfaces

## ▶ 9.3 Tech Stack & Usability

- ◆ September, 2009
- ◆ MS Windows Server 2008 64bit, MS Windows Vista
- ◆ Oracle 11g, MS SQL Server 2008
- ◆ Visual Studio 2008
- ◆ Enhance UI capabilities

# Roadmap

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## ▶ 9.x

- ◆ 2010
- ◆ Enhance Foundation Dashboard
- ◆ Extend Support for Case Handling Equipment
- ◆ Upgrade AGV Vehicle Communication
- ◆ Enhance AGV Reporting
- ◆ Technology Stack
- ◆ Enhance Usability

# Demonstration

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# Explore Features and Issues

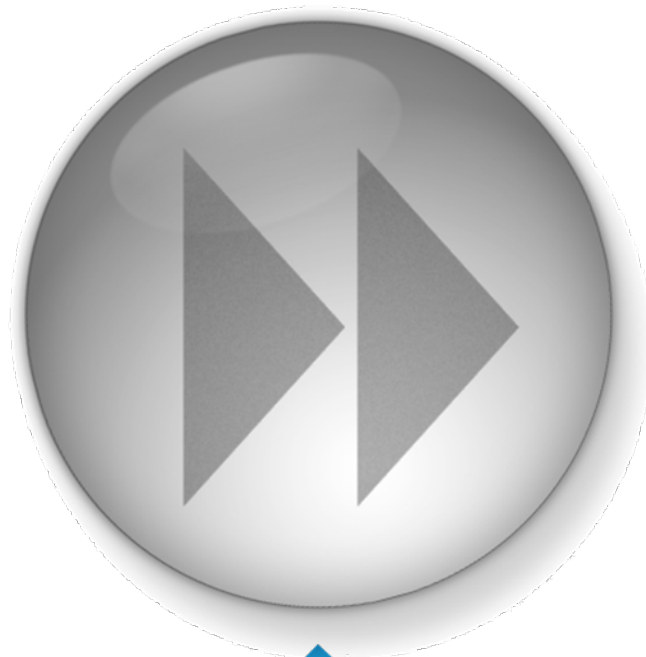
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- ▶ **We need your thoughts on:**
  - ◆ **Usability**
  - ◆ **Productivity**
  - ◆ **Features and Functions**
  - ◆ **Tools**
  - ◆ **New Concepts**

# Key Takeaways

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- ▶ **Understanding of HK Systems Roadmap**
- ▶ **New Features available**
- ▶ **Look and feel of the 9.3 version of software**



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Questions?