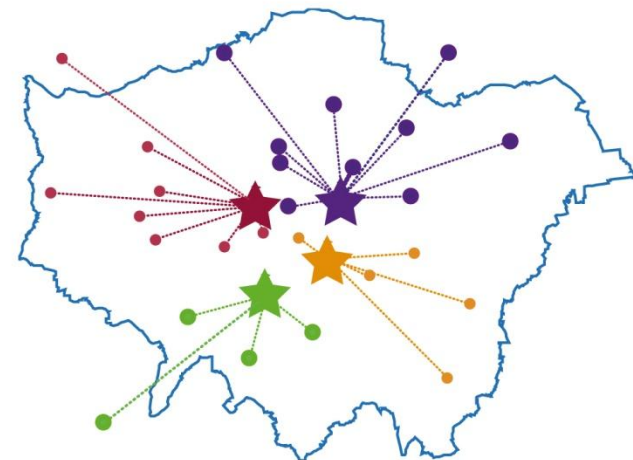


Measurement of trauma outcomes: The role of rehabilitation providers

**Rebekah Middleton
Senior Project Officer
London Trauma Office**

**ABIL Meeting
9th May 2011**



Defining the problem - System

“Routine measurement of injury outcomes other than mortality is rare” Gabbe et al, 2010.

- Requirement to measure more than death or survival
- Detailed outcomes are vital to understand performance
- Required to inform further improvements
- **Allied health professionals have vital role**

Defining the problem - Rehabilitation

“Few dispute the need to measure outcomes in rehabilitation, but it is easier said than done” BSRM, 2005.

- Which measures?
- When to collect?
- Consistency across the population?

Defining the problem - Rehabilitation

The bigger picture

- Diverse and complex issues
- Absence of data
- Not routine practice
- No financial incentive

Pilot Objectives

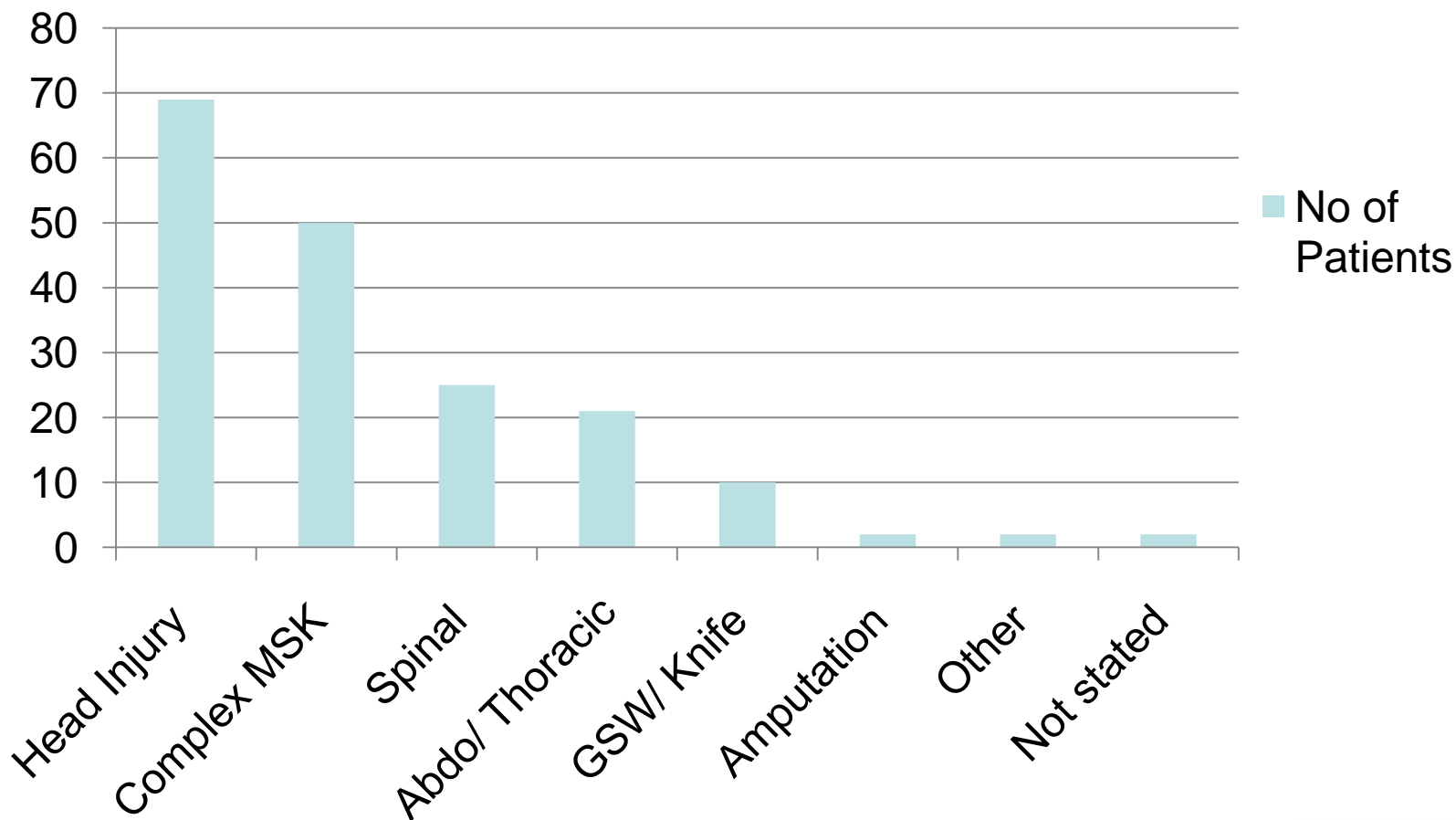
- **Collate prospective data**
 - Measure Rehabilitation Needs – RCS
 - Understand categories of Rehabilitation need according the Specialised Services National Definition Set (No 7)
 - Identify the gap between the level of Rehabilitation need and provision available at next service
- **Trial complexity and outcome measures**
 - Explore which measures
 - Feasibility of implementation

Approach

- 4 MTC
- Support from group chair
- Collaborators
 - TARN
 - DH
 - LSCG
 - UKROC
- Information sessions
- Materials, guidance & data collection tools
- Aim 100 patients
- December 2010 – January 2011
- Patient scoring
 - Recruitment
 - Location
 - Data collected
 - LOS
- Data management

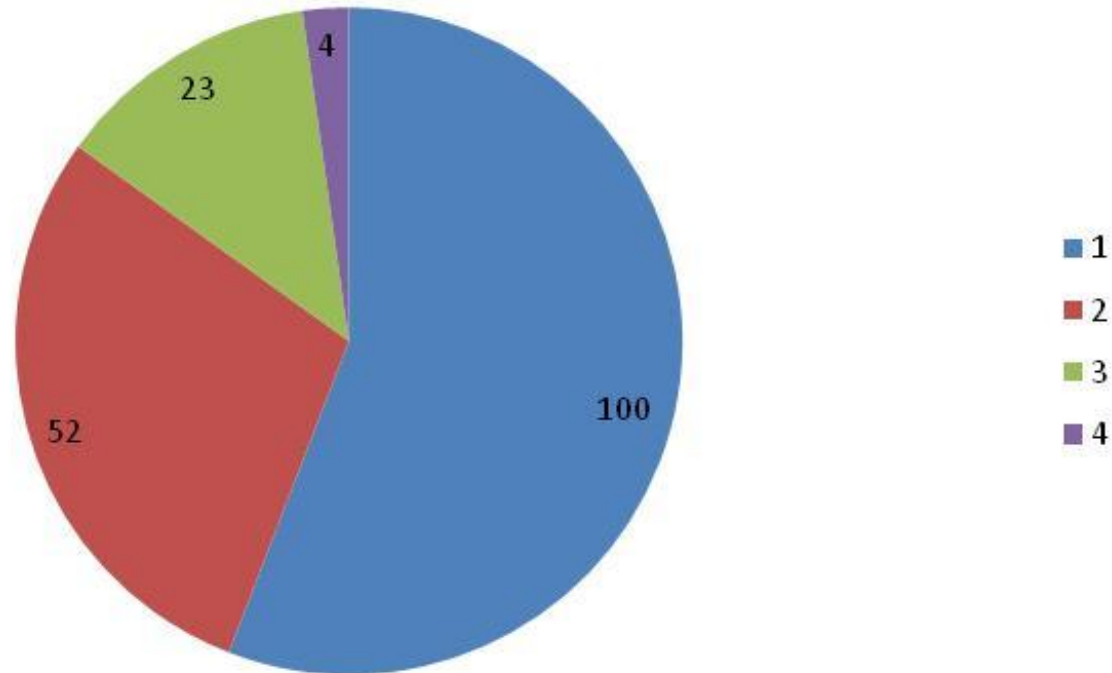
Results - Collate Prospective Data

- 179 Patients recruited



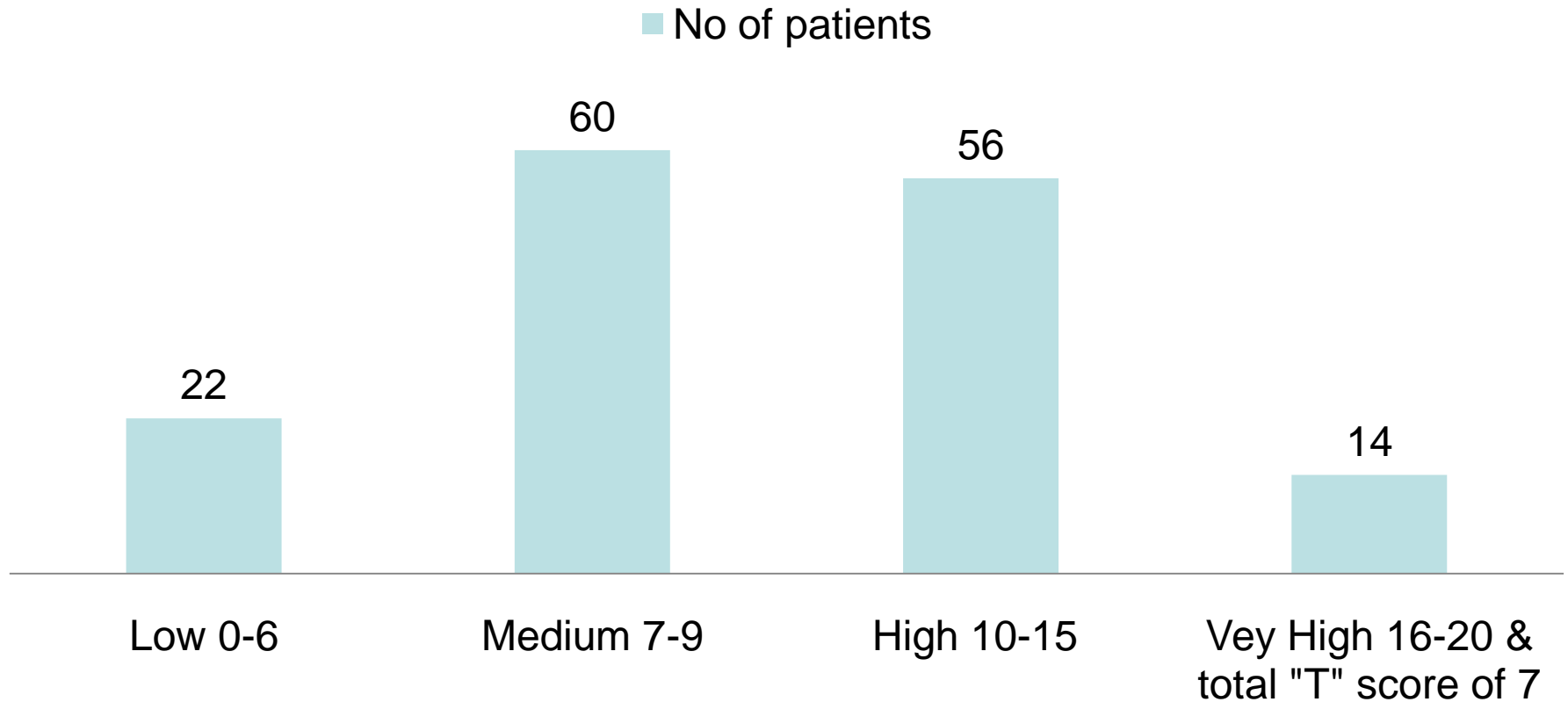
Results - Collate Prospective Data

Volume of patients according to number of injuries.



Collate Prospective Data – Measure Rehabilitation Need

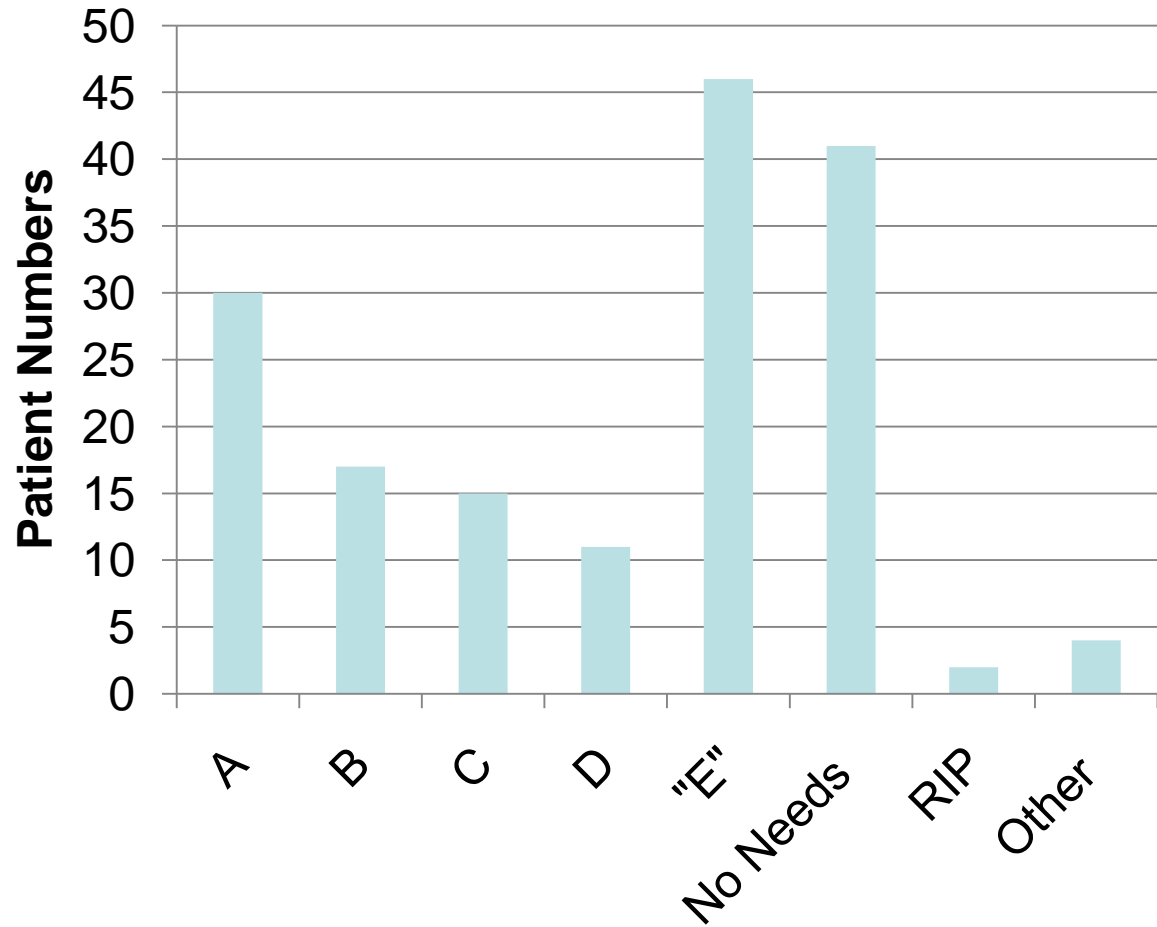
Ward Admission RCS –E Scores



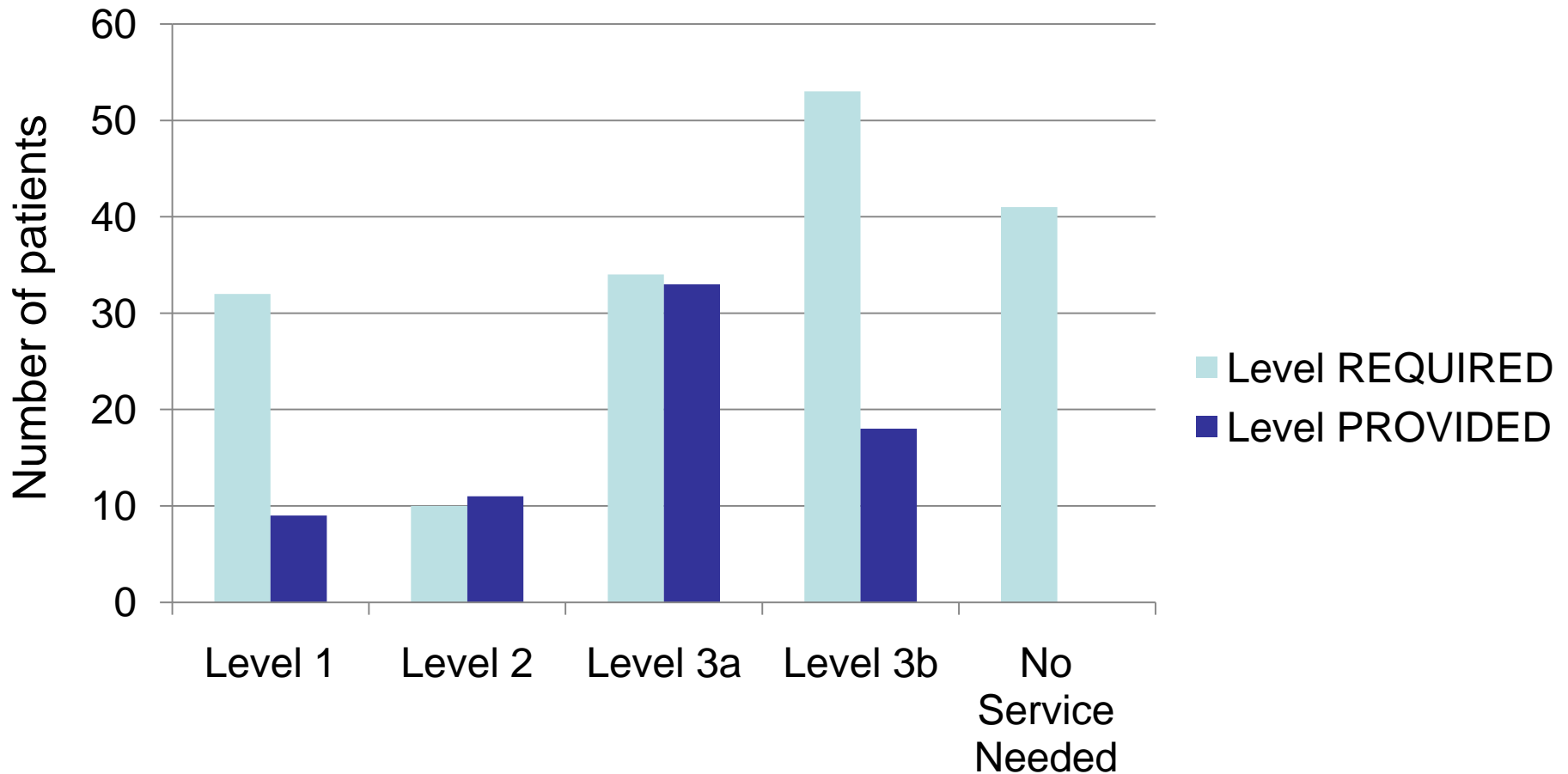
Collate Prospective Data – Understand

Complexity according to SSNDS Categories of patient need for Rehabilitation Service

- A = Complex/profound disability
- B = Mod to Severe Disability
- C = Functional, Local Specialist
- D = Functional, Non Specialist
- E = Community



Collate Prospective Data – Identify the gap between the level of Rehabilitation and provision available at next service



Collate Prospective Data - Identify the gap between the level of Rehabilitation and provision available at next service

Exploring the “gap”

- Service does not exist
- 27 % respondents
- Common issues was MSK injuries (except 1)

- Service exists however **ACCESS DELAYS**
- 43% respondents

Within this group

- **Injuries**
- 1/3 Isolated Head Injuries
- 1/2 Head injury and other concurrent injuries
- **Services required**
- 2/3 awaiting level 1
- 1/5 awaiting level 2

Results - Trial complexity and outcome measures

- **All measures suitable**
- **Quick and easy to assess**
- **Mixed feasibility to implement**
 - Timing
 - Differences across the trust
- **Impact of navigator posts more evident**
 - Predicted trauma caseloads compared to response rates
- **Potential to include the FIM is variable**
- **Further data analysis**
- **Semi structured interviews with clinicians**

Conclusions to date

- Confirmed the population has diverse rehabilitation needs
- Confirmed the factors affecting pathway also very diverse
- Routine use of RCS, Barthel, and SSNDS possible
- Ongoing collection is indicated
- Consistency across London valuable
 - supports capture of need, capacity and outcomes
 - patient, service and pan London level

Conclusions to date continued

- Data essential for informing service evaluation and development
- AHP's motivated to collate data and outcome measures
- Financial and political climate
- Study limitations

Ongoing analysis / Next Steps

- **Detailed and individual analysis and reporting**
- **Refining recommendations**
 - Trusts, DH,
 - Liaise with LSCG
- Continue collaboration with TARN
- Access to training / provision of resources
- Develop a pan London Rehabilitation prescription
- Joint working re service directory – 111 link
- Integrate rehabilitation measures and data into system performance criteria



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Questions?