

Grand Challenge

Rules for Participation

INTRODUCTION

1. Scope These Rules apply to all teams in the MoD Grand Challenge. They do not over-ride any contractual terms and conditions.
2. The Challenge ***The challenge is to create a system with a high degree of autonomy that can detect, identify, monitor and report a range of military threats in an urban environment.***
3. Overview Troops, whether operating in combat, peacekeeping or other roles, need to be aware of potential threats or developing situations in their vicinity. In urban environments, their field of view is restricted and their knowledge of what is several blocks away, what is hidden within buildings or even what is round the next corner is limited. The Grand Challenge is an opportunity for the Science and Technology community to help provide the infantryman with the tools to gain that vital knowledge.
4. The Grand Challenge will culminate in a competitive physical demonstration of an autonomous or semi-autonomous system in a representative urban environment at Copehill Down Village, on Salisbury Plain. It is envisaged that the system should be small and inexpensive whilst having utility in a wide range of circumstances. However, to simplify the nature of the physical demonstration it will be based on a relatively short-range reconnaissance of a village, prior to the entry of a foot patrol. Several potential threats will be positioned around the village, including in buildings. Systems will be required to detect these threats and provide sufficient information for the representative tactical commander to assess the threat and determine its position.
5. All teams who participate in the Finale will be showcasing their capabilities to the MoD and other potential customers through the media.
6. The winner of the Grand Challenge will be determined by performance in the Finale. Participation in the Finale will be subject to passing other key milestones.

7. Prizes The RJ Mitchell Trophy Teams from both Groups 1 and 2 who qualify for the final event will be eligible to compete for the R J Mitchell Trophy.



8. The MoD is keen to recognise the efforts of all teams and therefore, there will be Additional Awards for technical excellence or innovation in areas contributing to the overall system. The number and areas for consideration will be determined by the judges during the course of the Grand Challenge but is likely to include both sub-system designs/technology and overall system concepts and operating schemes.

9. Copehill Down There is to be no direct communication, access or visits to the intended training area or the military staff at Copehill Down by any team, or team member. Copehill Down staff will notify the MoD Project Manager of any attempt to do so. **This is a busy military training area and it would be unsafe for any unauthorised access or visit at any time, on any day, including weekends or holidays.**

10. A visit to Copehill Down is intended for Summer 07 for all Grand Challenge teams. This will be shortly after contract awards, which is the effective start point for the Grand Challenge. Details of this will be notified via the web site.

11. Rules for the Finale There will be a set of Rules for the Conduct of the Finale. These Rules will be under constant review to ensure maximum benefit is gained by all teams and the MoD. To meet this requirement the Chief Judge may authorise changes to the Rules. Rules may be changed for a number of reasons, such as to accommodate a promising, innovative technology. Teams may request such changes through the Chief Judge. The decision of the Chief Judge is final.

TEAM ORGANISATION

12. Group 1 and 2 Teams The Grand Challenge will be open for applications and the entrance forms will be available after the Participants Conference via the web site. There will be two ways of entering the competition, Group 1 and Group 2.

13. Group 1 By entering as a Group 1 team you will be applying for MOD funding to assist your development effort. Any funding will be based and assessed on each team's individual needs. If successful, the MOD will award a contract based upon the Grand Challenge Contract Template (included in the Grand Challenge website). The terms of any such contract are that, whilst ownership arrangements for the IPR will be vested in the contract holder, the MOD will have certain user rights to exploit the foreground IPR (see the

Guidance Note for Submission of Proposals - included in the Grand Challenge website – for further details). If you are unsuccessful as a Group 1 applicant you will be considered for Group 2 status.

14. Group 2 Group 2 teams will not receive MoD development funding but will be eligible to take part in the final test.

15. Both Groups will be required to submit a technical proposal. The proposal will consist of an outline of how they propose to meet the challenge against the final set of objectives. Group 1 entrants will be requested to identify and quantify any investment they would need to develop their proposals through to a fully deliverable system. Should a Group 1 or a Group 2 team subsequently be successful in the Grand Challenge, MOD may wish to enter into negotiations to determine possible future exploitation paths, either in conjunction with the entrant or unilaterally, on equitable and mutually agreeable terms

16. Membership Teams may consist of any number of people. A nominated Team Leader is required through whom all communication will be channelled. No animals may be a component of proposed systems or team members.

17. Foreign Teams and Members The MOD's Grand Challenge is pre-dominantly aimed at UK suppliers - large and small, research laboratories, academia and education science faculties. The MoD will consider interest from teams who have members who are not UK citizens. All teams must have a UK located team base, and all system development must take place in the UK.

18. MOD would expect any participating team to follow our published programme for the Grand Challenge and to be able to demonstrate that they can participate as fully as UK based suppliers with access to UK facilities and resources. It would also be expected that proposals show consideration for how this would be taken forward to a UK Defence capability. Group 1 teams must be prepared to accept MOD terms and conditions of any contract associated with the Grand Challenge and the arrangements regarding Intellectual Property Rights.

19. Advertising/Promotion Teams are to inform the MoD Project Manager of all planned advertising/promotion for their team. This is to enable the MoD to optimise opportunities for mutual benefit and will avoid any potential conflict of interest to the MoD.

20. Publicity Teams must be willing to engage the published and broadcast media as part of the Grand Challenge, but are to inform the MoD Project Manager of all planned media coverage that the Team arranges. This is to enable the MoD to optimise opportunities for mutual benefit and will avoid any potential conflict of interest to the MoD.

REQUIREMENTS

21. Milestones Teams who do not intend to apply for Group 1 funding but wish to be considered for Group 2 only need not provide a Commercial Proposal. Key Milestones:

Date	Group 1 Teams	Group 2 Teams
15 May 2007	Submit Proposal	Submit Proposal
Jul 2007	Contract Award	Group 2 status confirmation letter
Jan 2008	Site Visit	Site Visit
Jun 2008	Pre-Qualification	Pre-Qualification
Aug 2008	Technical Presentation and Finale	Technical Presentation and Finale

22. Site Visit Teams shall participate in a visit to the team location in the UK. This will be a one day visit by members of the MoD Project Team and Grand Challenge Judges. This visit will focus on technical progress, schedule/budget issues (Group 1 teams only), risk management and health & safety issues for operation of the system at the Final Demonstration. Appropriate presentations to meet these subjects are expected. The MoD will seek to advise teams on potential issues and risks to be addressed before the Pre-Qualification. The meetings shall be held at mutually convenient dates as indicated in the Team's Proposal. The team shall be responsible for arranging the visit and notifying the arrangements to the MoD Project Manager.

23. Pre-Qualification The Team shall submit the proposed system for examination by the MoD Project Team and Grand Challenge Judges with a view to approval of the system for participation in the Final Demonstration at Copehill Down. This examination will focus on Health & Safety to determine the suitability of the system for the Finale. This examination will be approximately one calendar month before the Finale begins. A timetable to rectify any issues identified will be agreed at this point before a final examination is carried out. Any issues that are not rectified to the satisfaction of the MoD Project Team by the first day of the Finale will result in exclusion from participation on the grounds of Health & Safety. Any issues not resolved from the Site Visit may also result in exclusion from the Finale.

24. Technical Presentation and Report Teams shall provide a presentation to the MoD Project Team as part of their attendance at the Finale. This presentation is to deliver a description of the system, how it operates and how the team intend to use it in accordance with the Grand Challenge Rules. A report summarising the Team's system shall be provided to the MoD with the following sections:

- Executive Summary
- Technical Description
- System Operation
- Exploitation Potential

25. Final Event Teams shall participate in the Finale at Copehill Down, or at a location designated by the MoD in the event that Copehill Down is not available, in accordance with the Rules for the Finale.