

**PSSTG**  
**(Public Sector Spectrum Testing Group)**  
**VIEW**

**Presented By**  
**John Mettrop**  
Directorate of Airspace Policy  
Surveillance & Spectrum Management

# Introduction



- ❖ **Who Are the PSSTG?**
- ❖ **Terms of reference**
- ❖ **Past test programmes**
- ❖ **Radar protection criteria**
  - ◆ **ITU I/N method**
  - ◆ **Shortcomings**
  - ◆ **Way forward**

# Who are the PSSTG?



- ❖ **Formed in 2005**
- ❖ **Established to study interference to Radars from UWB**
- ❖ **Permanent members from Ofcom, MOD, MCA & CAA**
- ❖ **Additional members by invitation**

# Terms of Reference



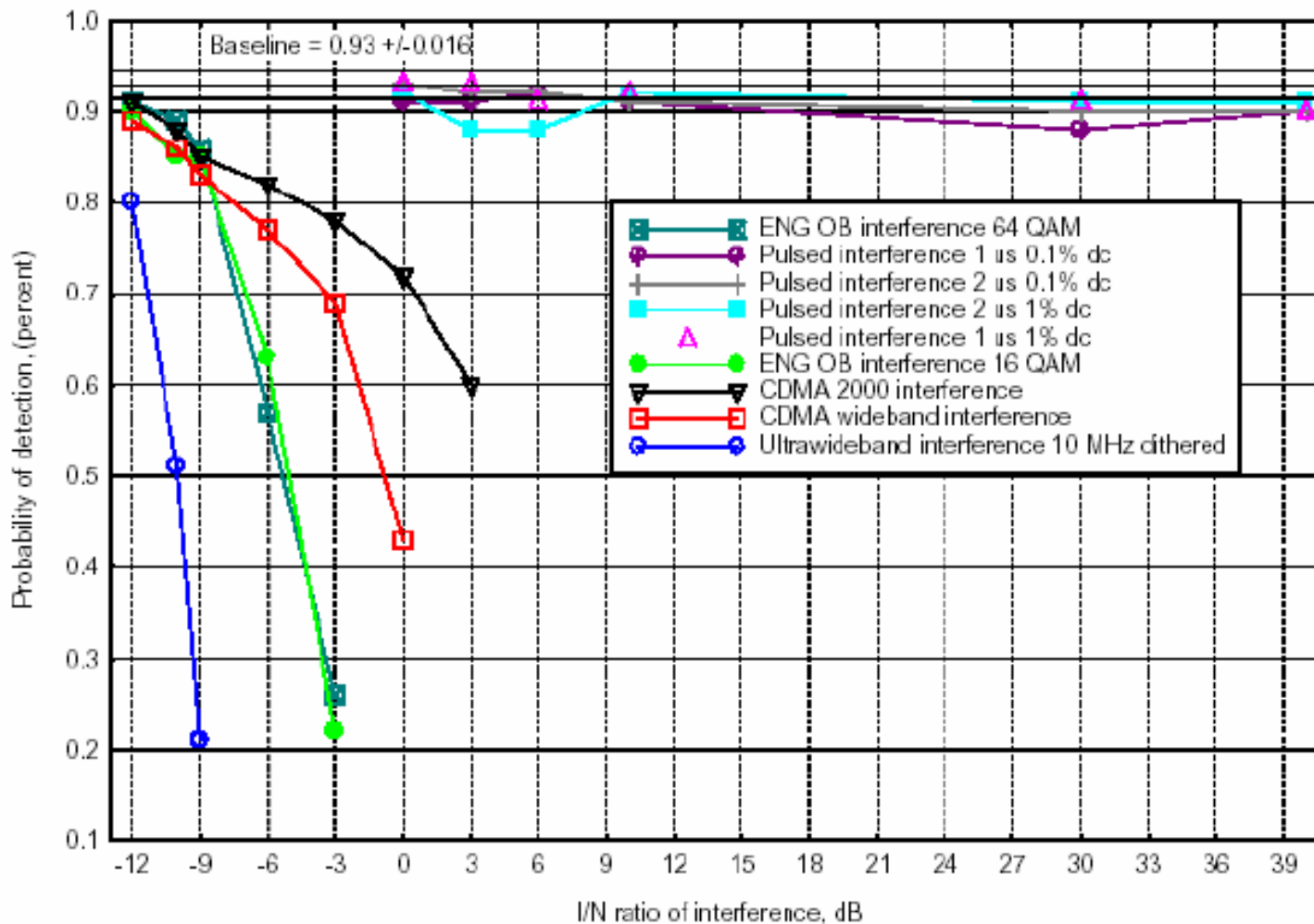
- ❖ **Result of Independent Audit of Spectrum Holdings**
- ❖ **Reports to the Bandsharing Group, a sub-group of the UKSSC**
- ❖ **Public safety and security spectrum**
- ❖ **Development:-**
  - ◆ **Generic test methodologies**
  - ◆ **Safety Criteria**
  - ◆ **Test plans**
- ❖ **Undertaking testing and assess the results**

# Past Test Programmes

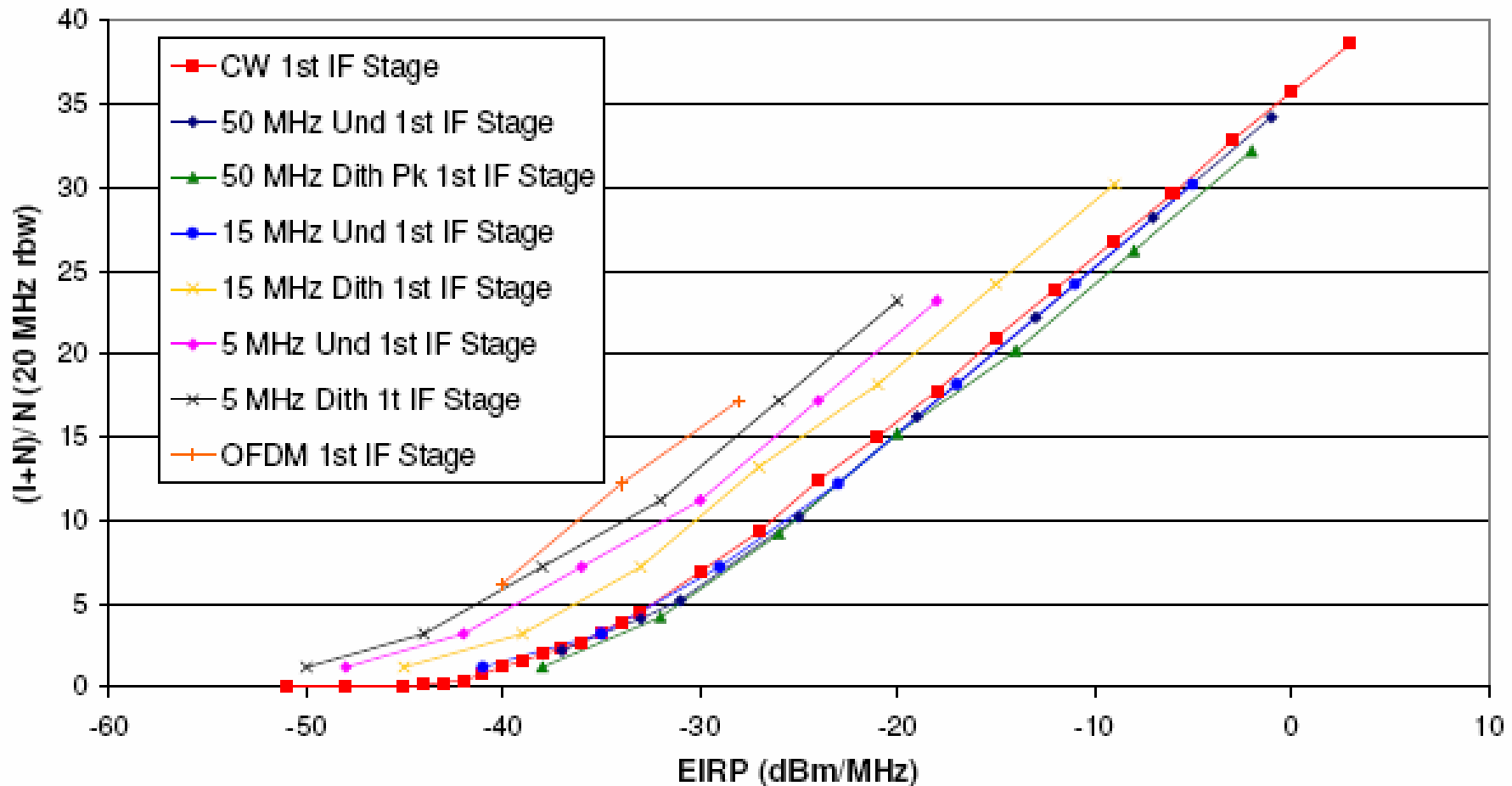


- ❖ **Radar vs UWB (Funtington)**
  - ◆ **December 2005**
  - ◆ **March 2006**
- ❖ **Maritime feasibility trials (Shoeburyness)**
- ❖ **Maritime radar trials (Oban)**

# Radar Protection Criteria Shortcomings



# Radar Protection Criteria Shortcomings



# Radar Protection Criteria Shortcomings



- ❖ **Variance in protection given**
- ❖ **Dependent on I/N selected either:-**
  - ◆ **Does not guarantee safety**
  - ◆ **Potentially over-restrictive to sharing technology**

# Way Forward



- ❖ **Establish generic protection criteria**
- ❖ **Establish test methodology**
- ❖ **Establish a test site if required**
- ❖ **Invite proposals for sharing**
- ❖ **Promote the issue in CEPT & ITU**

# **Protection of Existing Radar Systems is Paramount**