

The hazard of EVs

Solving silence with sound

Informal document No. **GRB-52-19**
(52nd GRB, 6-8 September 2010,
Agenda item 10.)



What makes a Safe Sounder

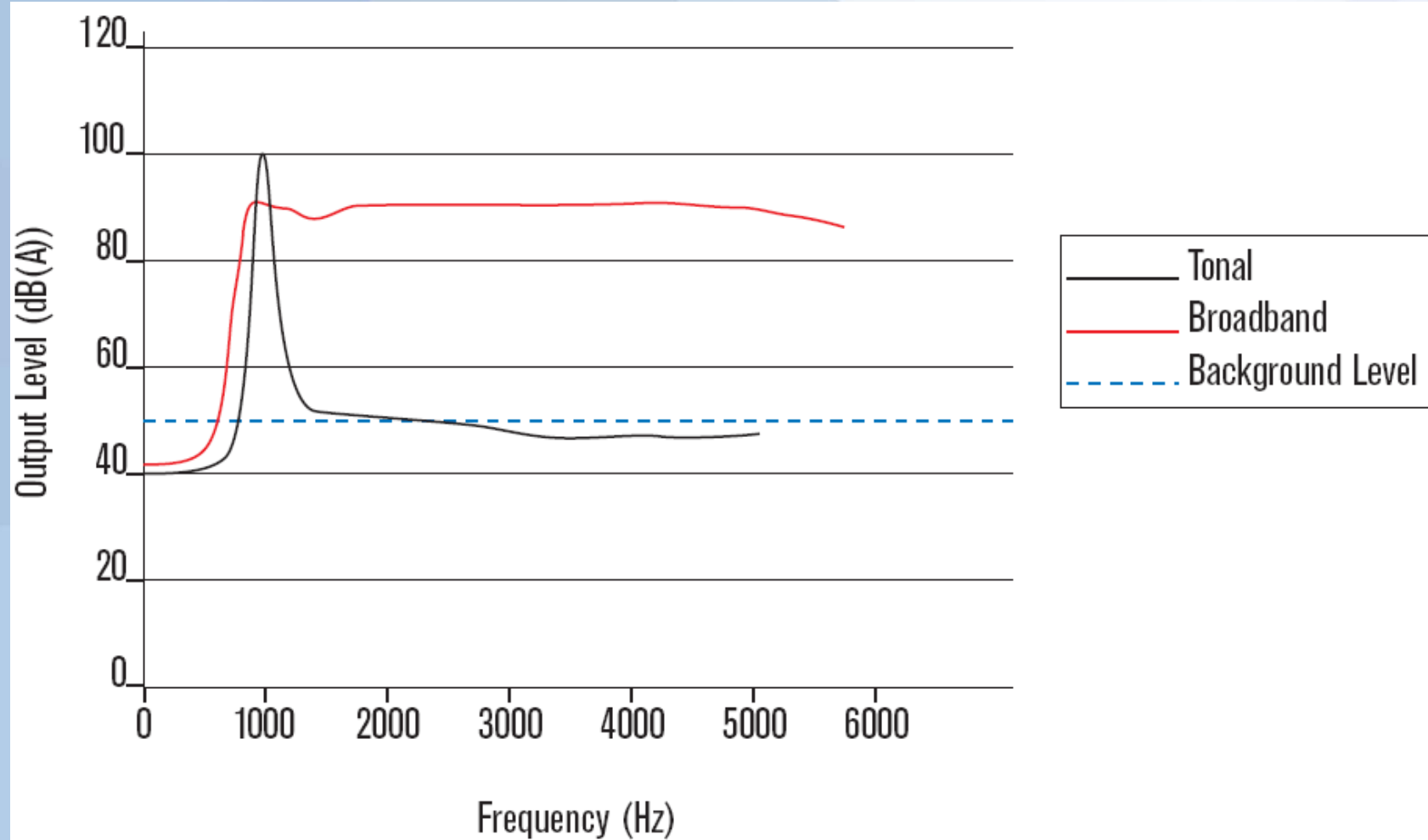
Requirement	Specifics
Detectable	Audible to all (incl. hearing impaired)
	Unambiguous & immediately locatable
	It must not be masked by other sounds
Environmental acceptable	No local noise nuisance
	Good directivity
	More rapid attenuation
Recognisable	hear – look – learn



How we hear



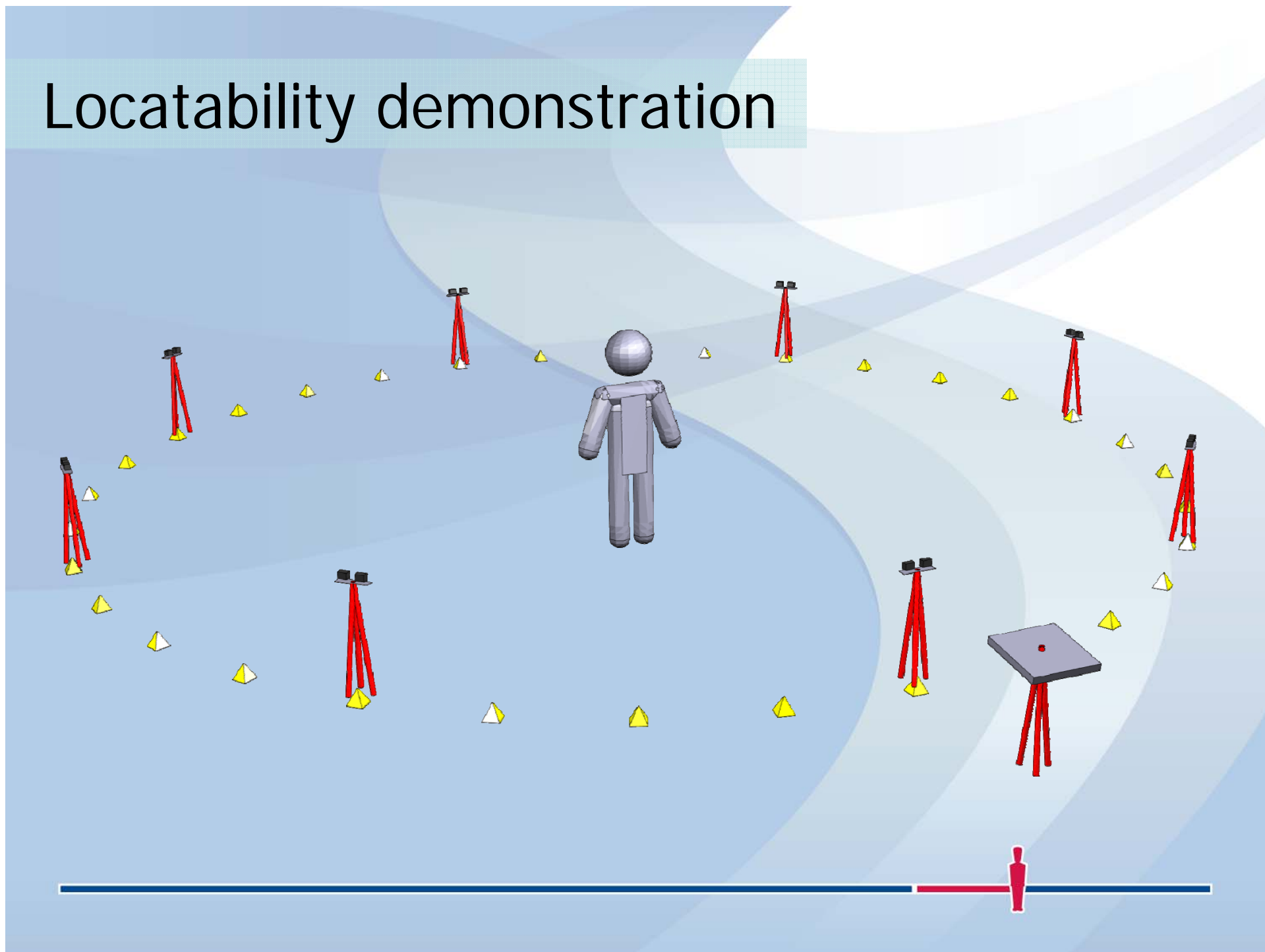
What is broadband sound?



What is
broadband sound?



Locatability demonstration





Sounder demonstration

Effective Sounder

Requirement	Specifics	Broadband
Detectable	Audible to all (incl. hearing impaired)	✓
	Unambiguous & immediately locatable	✓
	It must not be masked by other sounds	✓
Environmental acceptable	No local noise nuisance	✓
	Good directivity	✓
	More rapid attenuation	✓
Recognisable	hear – look – learn	✓

