

















ORFEUS GPR					
• Present market for surface GPR is dominated by impulsive systems					
• Detection depth of a GPR is directly related to its dynamic range, defined as: $DR = \frac{Maximum Power Received}{Minimum Potentehlo Revuer}$					
Current S.O.A. pulse GPR have dynamic ranges that don't exceed					
conditions					
• In order to increase 50% detection depth (at lest up to 1.5m) an increase of dynamic range up to 105dB or more is required					
		S.O.A Pulse GPR	\longrightarrow	ORFEUS GPR	
	Detection depth	1 meter (clay)	+ 50%	1,5 meters (clay)	
	Dynamic Range	70dB	+ 35dB	105dB 10	6





































