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Roadblocks/Challenges	Opportunities/Advantages
 Theory and fundamentals (lack of detailed design rules) Apparent Complexity Research Funding 	 Simpler, Cheaper, Easy Approaches (e.i. nano-Xtals,) Relative Efficiency Enhancements (spectral tuning, temp. coefficients radiation tolerance) Enter Through Heritage (III-Vs,) Enabling for Thin Films Mission Enabling (e.i. 77K radioisotope/PV battery) Mission Critical Applications (i.e. laser beaming,sensing,) Synergy with Other Tech. (Optoelectronics,etc) Expansion of Materials Palette for PV