eblanaphotonics

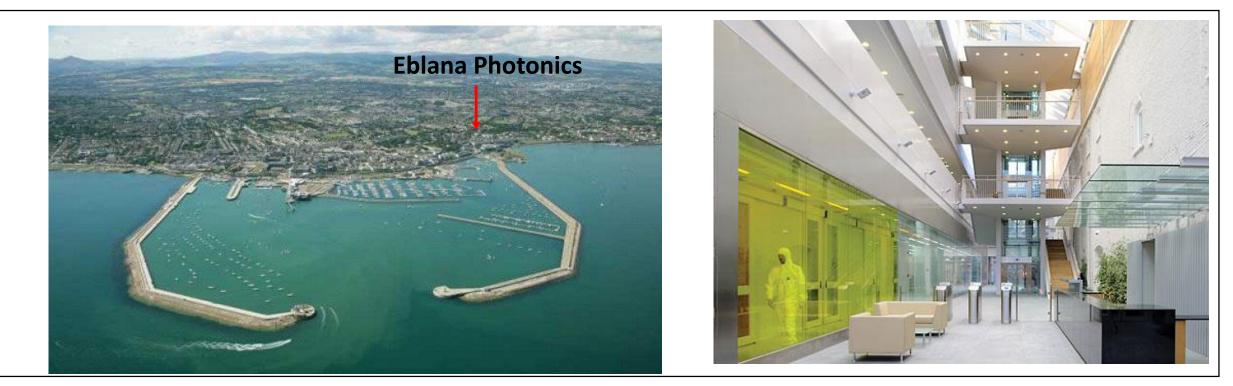
Discrete Mode (DM) Lasers Optical Sensing Redefined

www.eblanaphotonics.com Dublin, Ireland

SAL-TMPL-008 Sales Presentation ExternalVer. 1.0Eblana Photonics Ltd.Private & Confidential20 November 20181



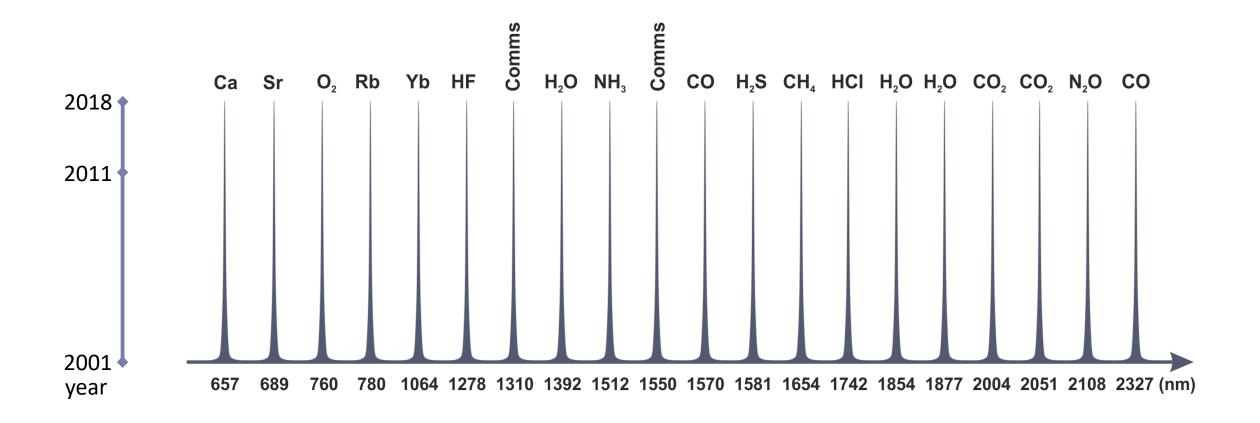
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Established 2001 Dublin, Ireland IP protected over 15 patentsCore technology developed at Tyndall Institute and Trinity25 employeesCollege Dublin (Semiconductor Photonics Group)

The Wavelengths. 657 – 2350 nm.

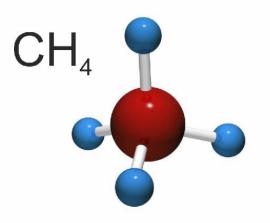






Sensing

High sensitivity detection: Gas Sensing, Medical, Security & Defence, Aerospace, Industrial, Research.

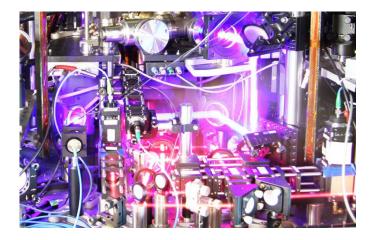


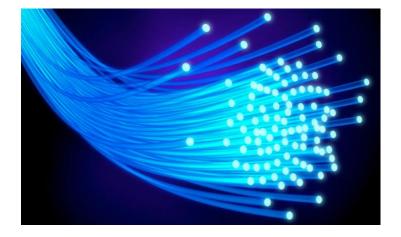
Metrology

Extremely **narrow line widths** (100kHz) for ultra-precision atomic clock, LIDAR, interferometry, test & measurements.

Communications

Eblana has been supplying lasers into the high volume, **fiber optic communications** industry for more than a decade.

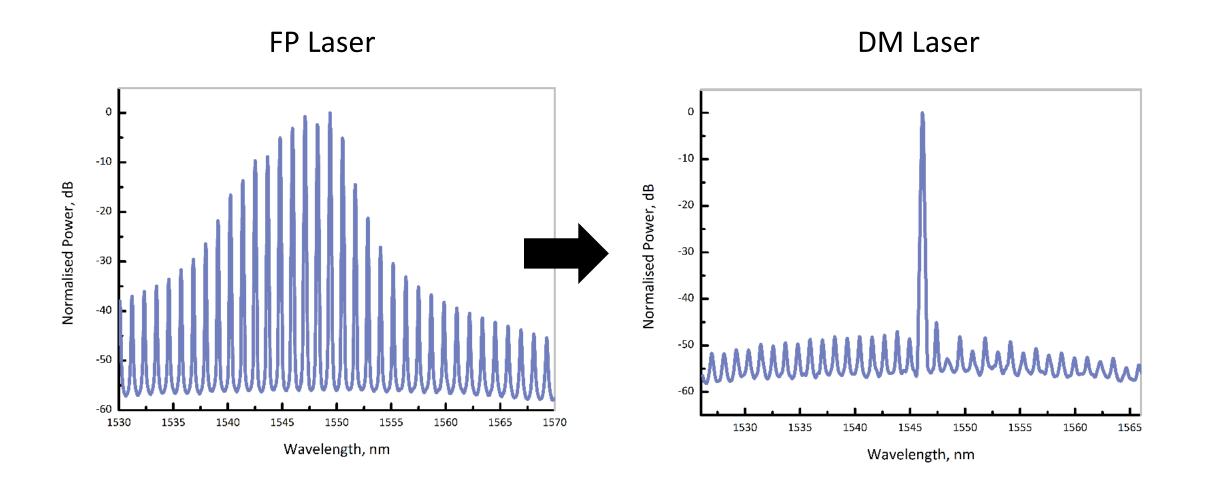




DM Technology

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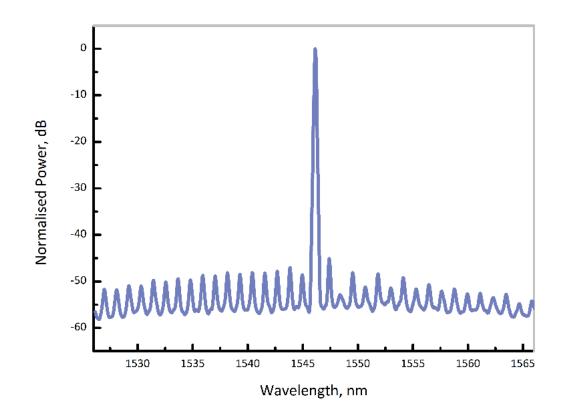


DM Technology



DM Laser

- Surface level lithography etches periodic features into ridge of RWG laser diode.
- Index perturbation creates loss condition for all FP modes except targeted wavelength of interest.
- Excellent Spectral Purity, SMSR, tuning results.



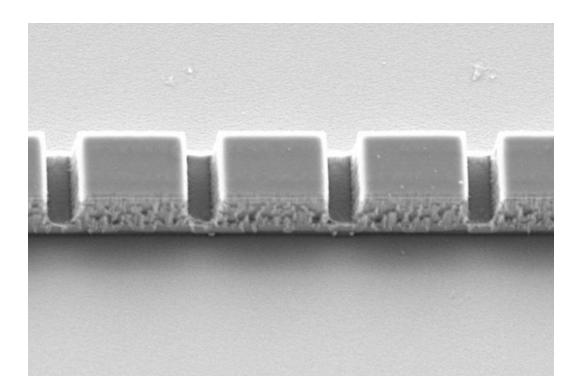
DM Technology

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DM TECHNOLOGY ADVANTAGES

- Simplified Manufacturing Process
- Consistency and Uniformity
- Monolithic Low Linewidth
- Flexibility
- Scalability

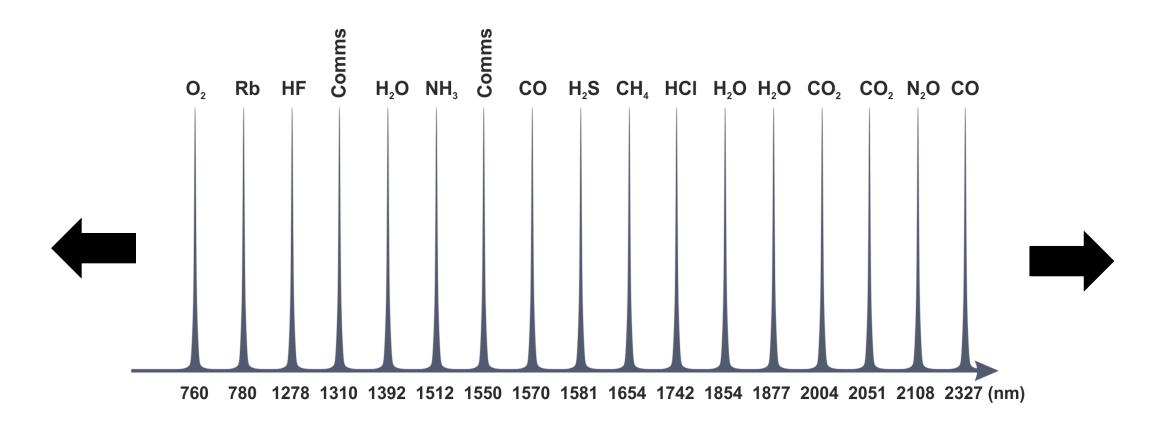


Our Story.



What's Next?

DM Technology is Material Agnostic.



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