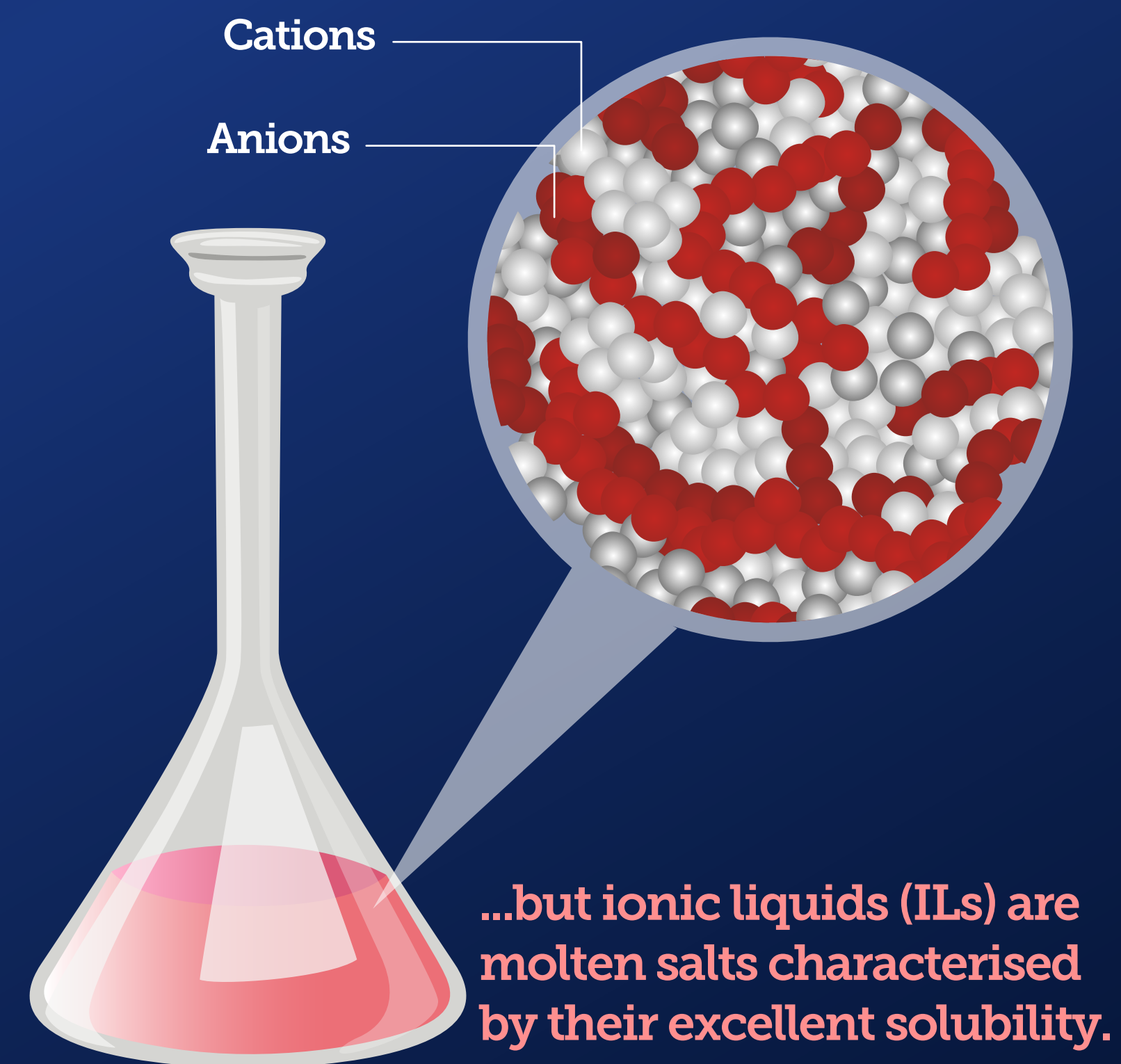
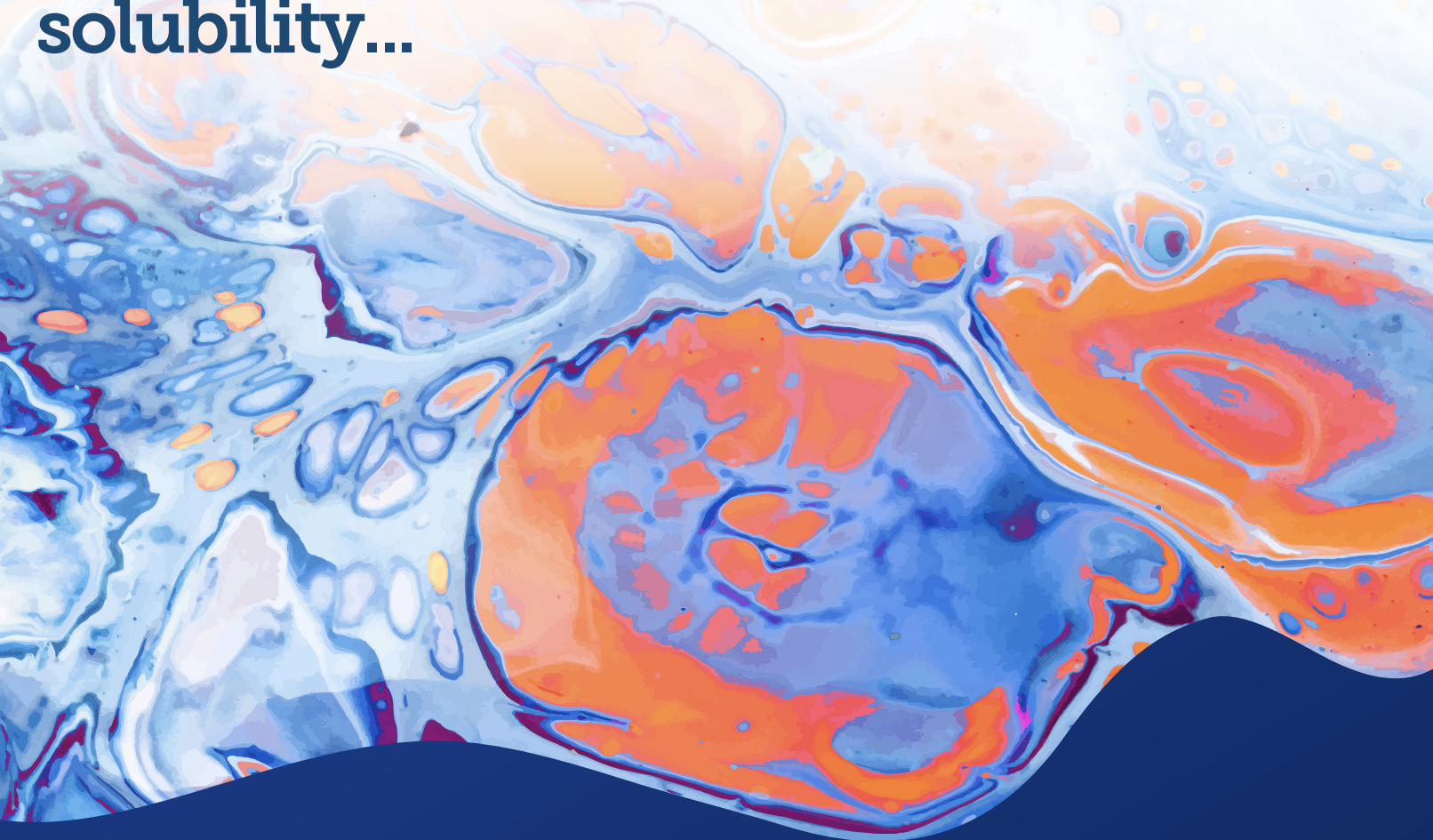


Using salt to mix oil and water

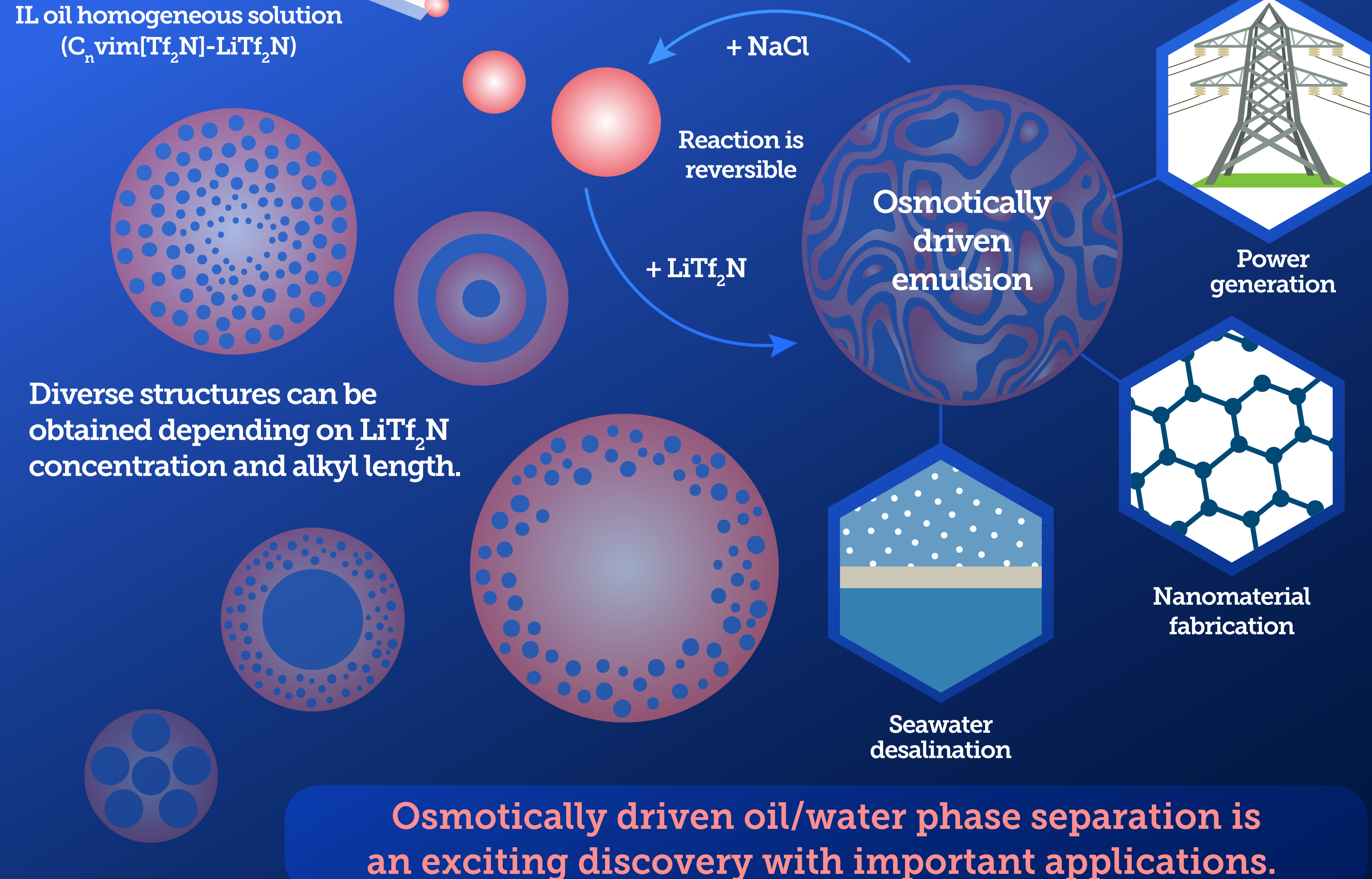
Conventional oils have limited solubility...



IL oil homogeneous solution
(C_n vim[Tf₂N]-LiTf₂N)

Diverse structures can be obtained depending on LiTf₂N concentration and alkyl length.

By increasing salt concentration, complex water/oil drops can be generated.



Chemical
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Observation of osmotically driven, highly controllable and reconfigurable oil/water phase separation
Li et al (2019) DOI: 10.1039/C9SC01649J

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