

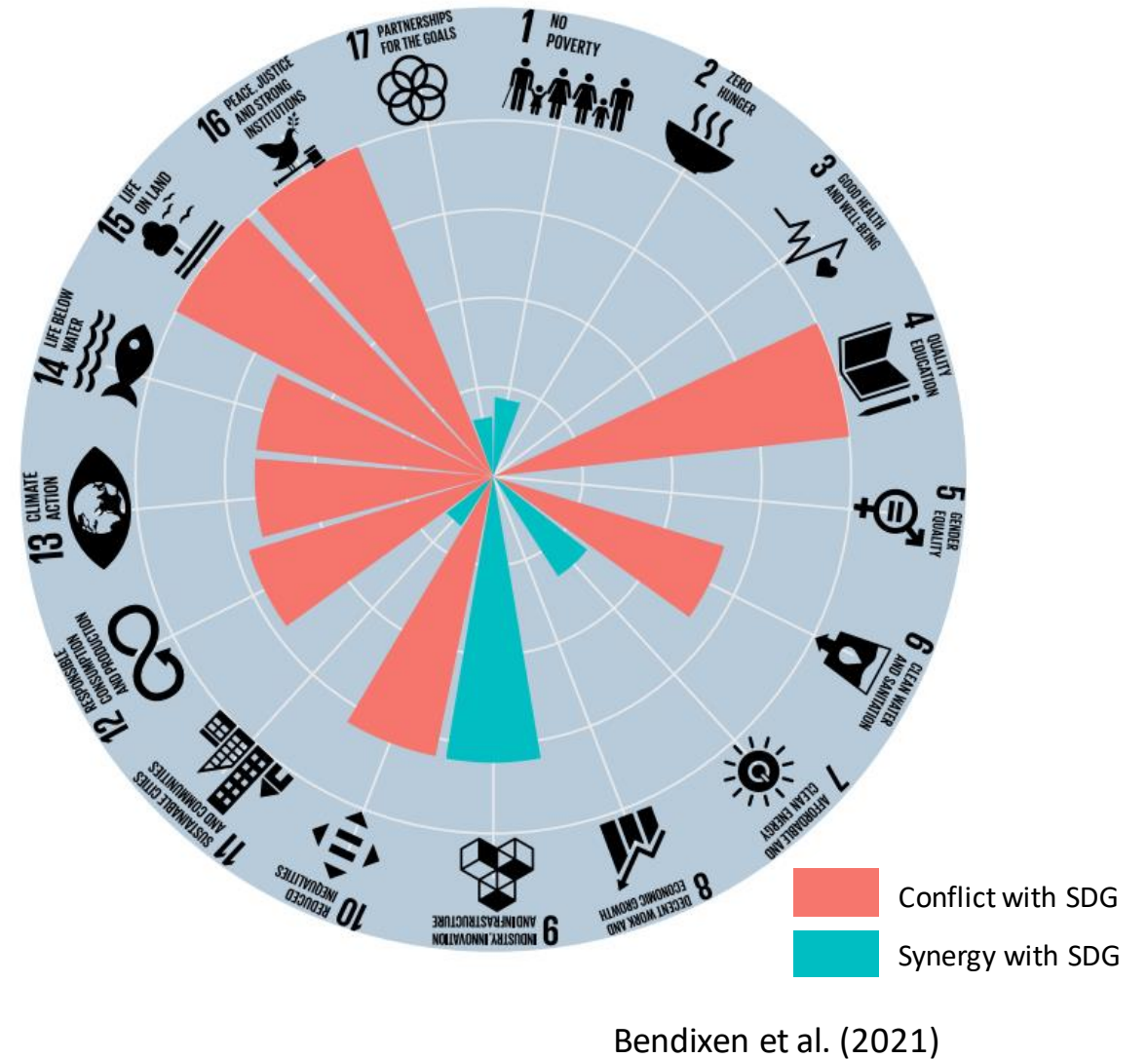
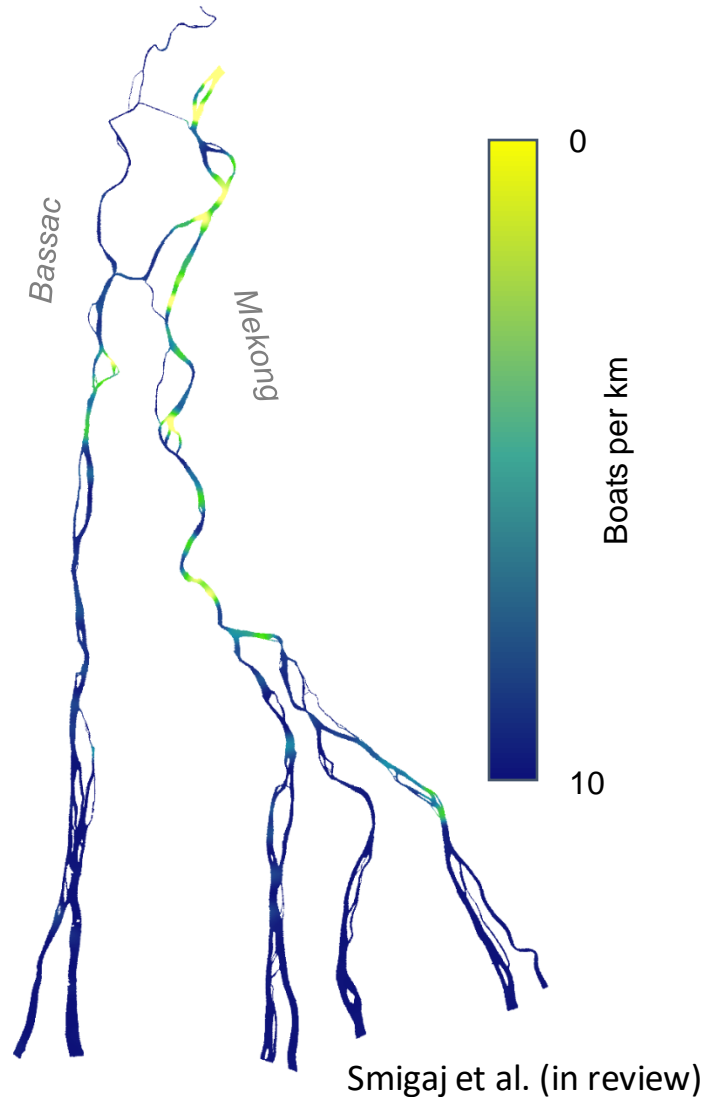
Every person on the planet uses 18 kg of sand *every day*



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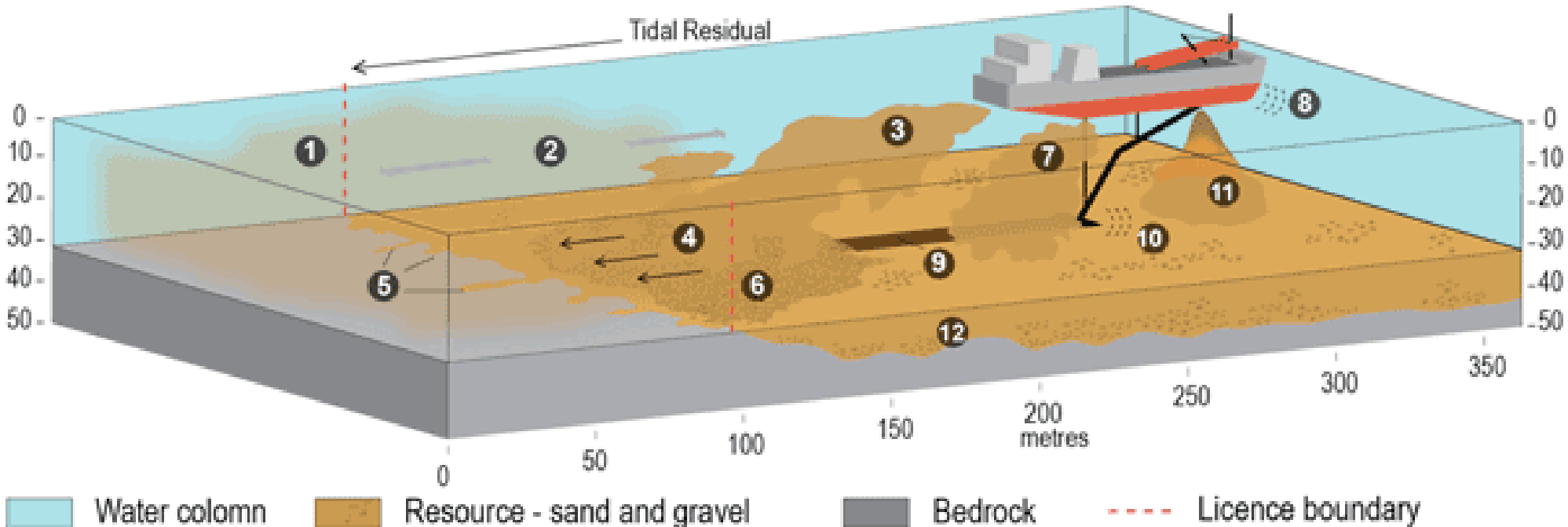
A pervasive activity key to livelihoods and ecosystems



Resulting in widespread damage to ecosystems

Direct and indirect impacts

- 1. Increased turbidity
- 2. Far field changes in tides and currents
- 3. 'Passive' sediment plume
- 4. Plume dispersal
- 5. Seabed sediment veneers
- 6. Deposition from sediment plumes
- 7. 'Active overflow plume'
- 8. Ship/Machinery noise
- 9. Seabed removal: bathymetric change
- 10. Draghead noise
- 11. 'Active' screening plume
- 12. Base of deposit



Sustainable solutions are needed to avoid a major ecological and environmental crisis

