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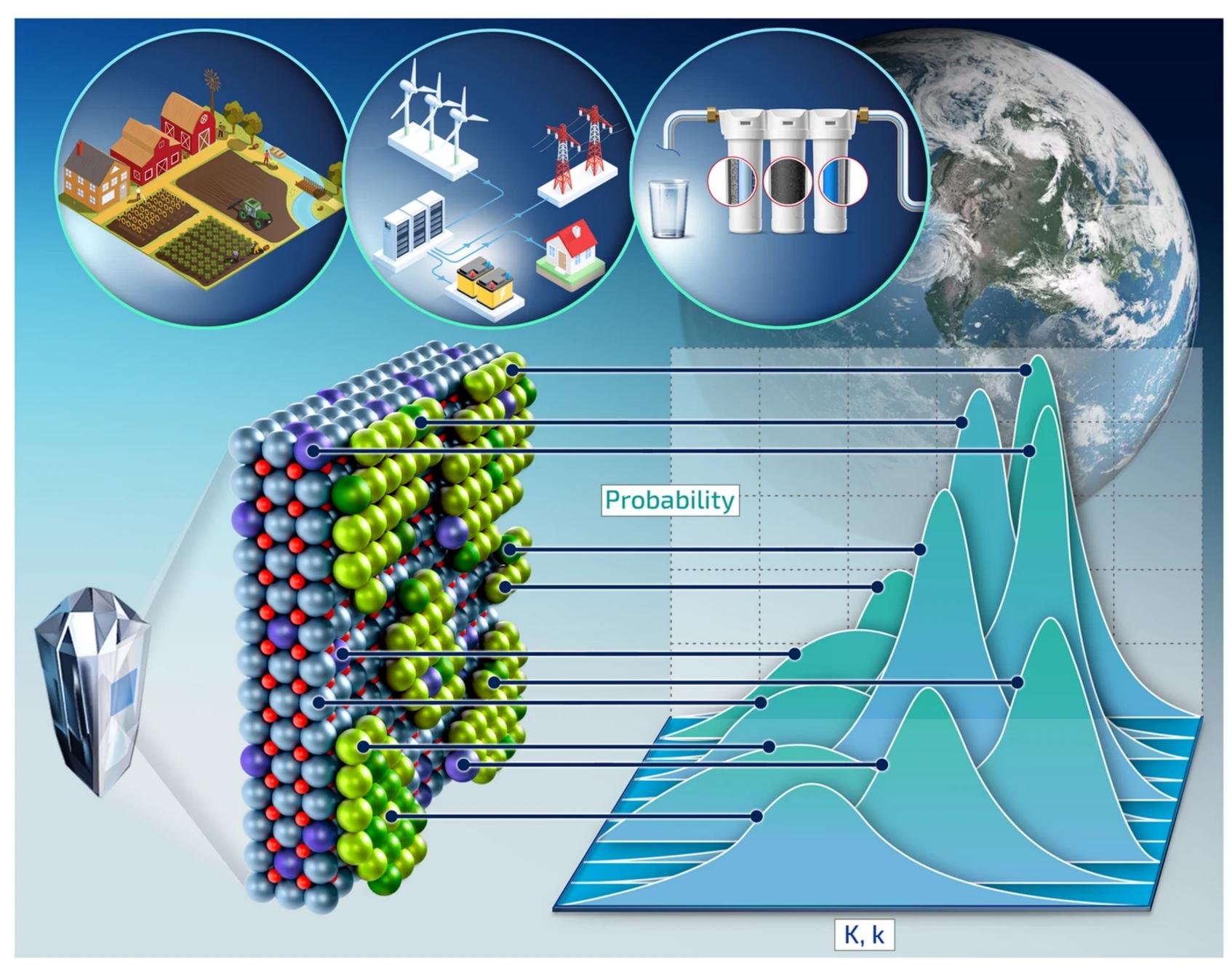
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## Fig. 9: Probabilistic nature of surface sites and their reactivities.

From: Bridging molecular-scale interfacial science with continuum-scale models



Schematic representation of various surface structures on a single crystal surface that have reactivities best represented by a distribution of equilibrium constants (K) and rection rate constants (k). These dynamic surface reactions include solvation, surface complexation, and attachment-detachment processes due to dissolution or precipitation. Chemistry of solid-water interfaces is crucial for understanding environmental fate and transport, and for applications such as water treatment, conventional and unconventional energy, and agriculture (all of which are represented with symbols in the upper portion of the figure).

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