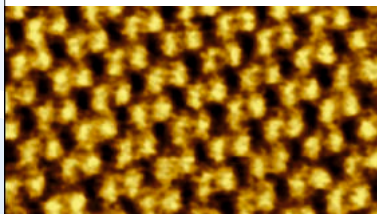


Protein Dynamics Centre

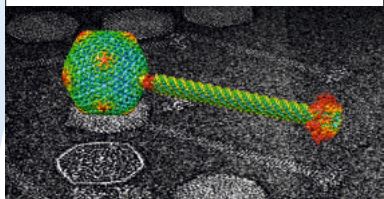
Interreg AT-CZ

Protein Dynamics Centre

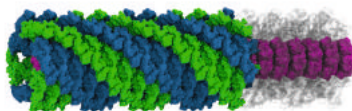
High Speed AFM

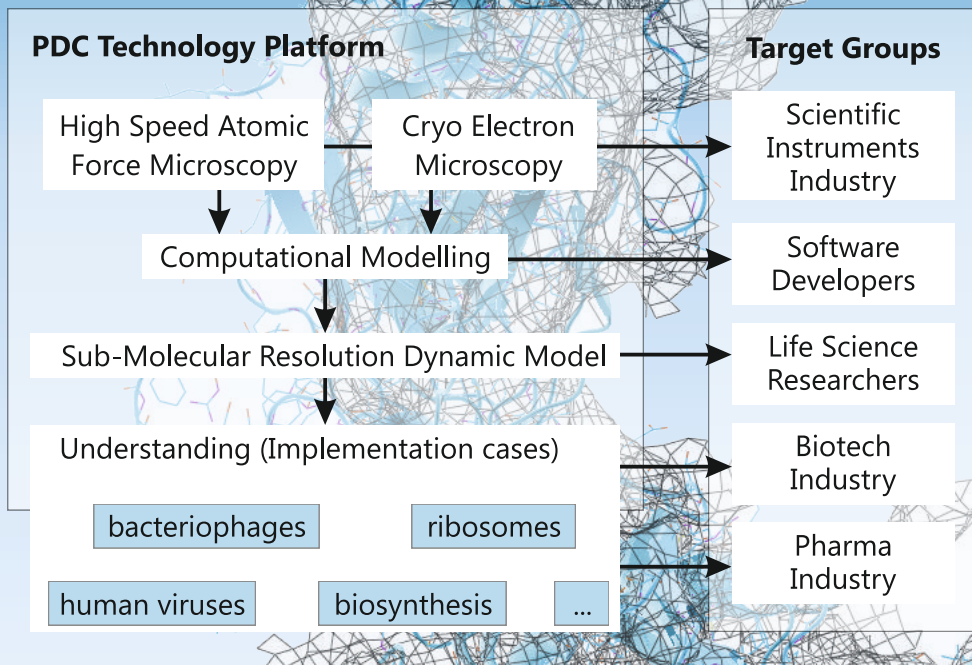


Cryo-EM



Computational
Modelling





The Protein Dynamics Centre (PDC) is a project within the framework of the Interreg AT-CZ programme. CBL (Linz, Austria) and CEITEC MU (Brno, Czech Republic) collaborate to establish an original platform which merges two high resolution microscopy techniques: (1) high-speed atomic force microscopy (HS-AFM), which enables observation of dynamic phenomena at sub-molecular spatial resolution and (2) cryo-electron microscopy (cryo-EM), yielding near-atomic resolution. Main goal of the PDC project is to combine the two types of data using advanced simulation methods in order to provide dynamic models which elucidate molecular mechanisms of fundamental biological processes.

