

Fig. 1 Specimen after LASAT (a) top-view evidencing the contrast induced by debonding (b) FIB BSE and (c) segmented images : bond-coat in blue, TGO in red, gaps between columns and crack in green and yellow arrows indicating micro-cracks within, below and above the oxide layer [4]

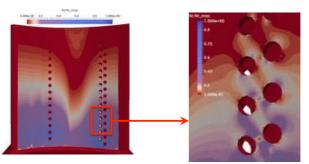


Fig. 2 Lifetime modeling of a turbine blade (courtesy of B. Marchand)