FRAMEWORK 2 binoi: linee VS superfici (LINEA) g: N34 -> R discreta con hoise Plaché una osservazione per eta Data set { }: } i = 2002, ---, 2011 3 = Aosta, \_\_\_, Caltanisse Na FDA Romsoy Silvermon 2005, Springer Even though each record fis: 112 -> 12 involves only discrete values, these values reflect à smooth variation in the rotes that could be assessed in principle, as often as desired, and is therefore a role function. N:, u = 8:, (u) + E=;u & unbiased Ly K= 17, \_\_\_, 50

In literature, porometric opproaches have been used, but conformetric Splines one more able to describe all Winds of age potterns € Fertility roles' smoothing Joop de Beer -> Smodling per travore La derivota seconda rel nostro specifico problema e informatica Chi edendo guntioni 8:3 1 / 1/3:5 { C C[17,50] in particularly; & c coo sente perdere di generalita -) Smodhing van pluolizzosione grado ((5)

And logonsly  $g: \mathcal{N}^{34} \times \mathcal{N}^{25} \longrightarrow \mathbb{R}$ And 25 before 9: 1122 -> 112 where  $\{9:\} \subset C^{00}$ [17,50] × [2002, 2021] Smothing with tensor product splines, to be continued Il polacco dice GLAM, l'importante et che sions tensor product voreamo confrontore, risultati con l'approccio 'di linee