MAP: for an exponential prior or the werage of a generian district: 200 a W (M, 52) Jun de am OFAP = argman P(O(X) = argman (P(X)O).P(O)
P(X) = argume (log P(X(0) + log P(0)) OMAR = argumen (log 1 - 2 - 2 + log 2 - 2 m  $M: \frac{\partial \mathcal{J}}{\partial \mu} = 0 \quad (\Rightarrow) \quad 0 = 0 \quad (\Rightarrow) \quad (\Rightarrow$ M= 1 2 ni - 20° Remark: as always, when N -> 0, the prior (2) becomes irrelevant. Also if 5 2 -> 0, the x's are varrowly distributed, the prior is irrelevant. Also, if x -> 0 (average of enpo. dist is -> 00)

then we have a (hind of) flar prior (although,
on the balf-space u>0 only) Reverk: it would have make more sense to use this prior on a positive-deflate variable. Cike or