Given an oppmization problem min fo(x) (w.r.t. K) surget to fo(x) 20 i=5--,m hi(x) =0 [=1,-1] consider the set of achievable objective values: 0= > fo(x) | x & D, fi(x) LO & v=1,..., m hi(x) =0 Vi=1, -, p] A point xx is optimal if fo (xx) is the minimum element of o. A point x* 13 Pareto optimal of fo(x*) a minimal element of o. Another framing: let F be the set of feasible points for our problem

 $\mathcal{F} = \{ x \in \mathcal{D} \mid f_i(x) < 0, i = 1, ..., m, h_i(x) = 0, i = 1, ..., P \}$

A point $x^* \in \mathcal{F}$ is optimal if $f_0(x^*) \leq_K f_0(y) \forall y \in \mathcal{F}$.

A point $x^* \in \mathcal{F}$ is Panto orthold if $f_0(y) \leq_k f_0(x^*) \Rightarrow f_0(y) = f_0(x^*)$.