- · Key ideas of bundle adjustment
 - · stoot with inital guess.
 - · Project estimated 3D points into estimated camera images.
 - · compare location between projected 3D points with measured 2D points.
 - " Adjust to minimize error in the images.

· Coefficient Matrix

$$\Delta X = |\Delta K|$$
 $\Delta X = |\Delta K|$
 $\Delta X = |\Delta K|$

$$\Delta X = |\Delta K|$$

$$\Rightarrow 60 \text{ orientation}$$
parameters

A = | A | = Coefficient A:: | Matrix

$$= \begin{bmatrix} a_{0,0} & B_{ij} & 0 & C_{ij}^{\mathsf{T}} & 0 \end{bmatrix}$$

= sparse matrix, made mostly of zeros.

His a jacobian which is of size 2xU, where U is number of unknowns. However, because we know that C lepends only on 3 and B only on 6 values. This is much better than using A with potential millions of unknown. One thing to note Is that matrix B and C will be different for every point. This means that majority points in A must be zero and not matter.

> · So, a key point is ... only the point we are observing and the camera that is observing the point, can tell us something about where the point will be mapped to. All other points and Camerus have no impact.