



Kuan Heng Lin<sup>1,3</sup> Zhizheng Liu<sup>1,4</sup> Pablo Salamanca<sup>1,2</sup> Yash Kant<sup>1,2</sup> Ryan Burgert<sup>1,2,5</sup> Yuancheng Xu<sup>1,2</sup> Koichi Namekata<sup>1,2,6</sup> Yiwei Zhao<sup>2</sup> Bolei Zhou<sup>4</sup> Micah Goldblum<sup>3</sup> Paul Debevec<sup>1,2</sup> Ning Yu<sup>1,2</sup>

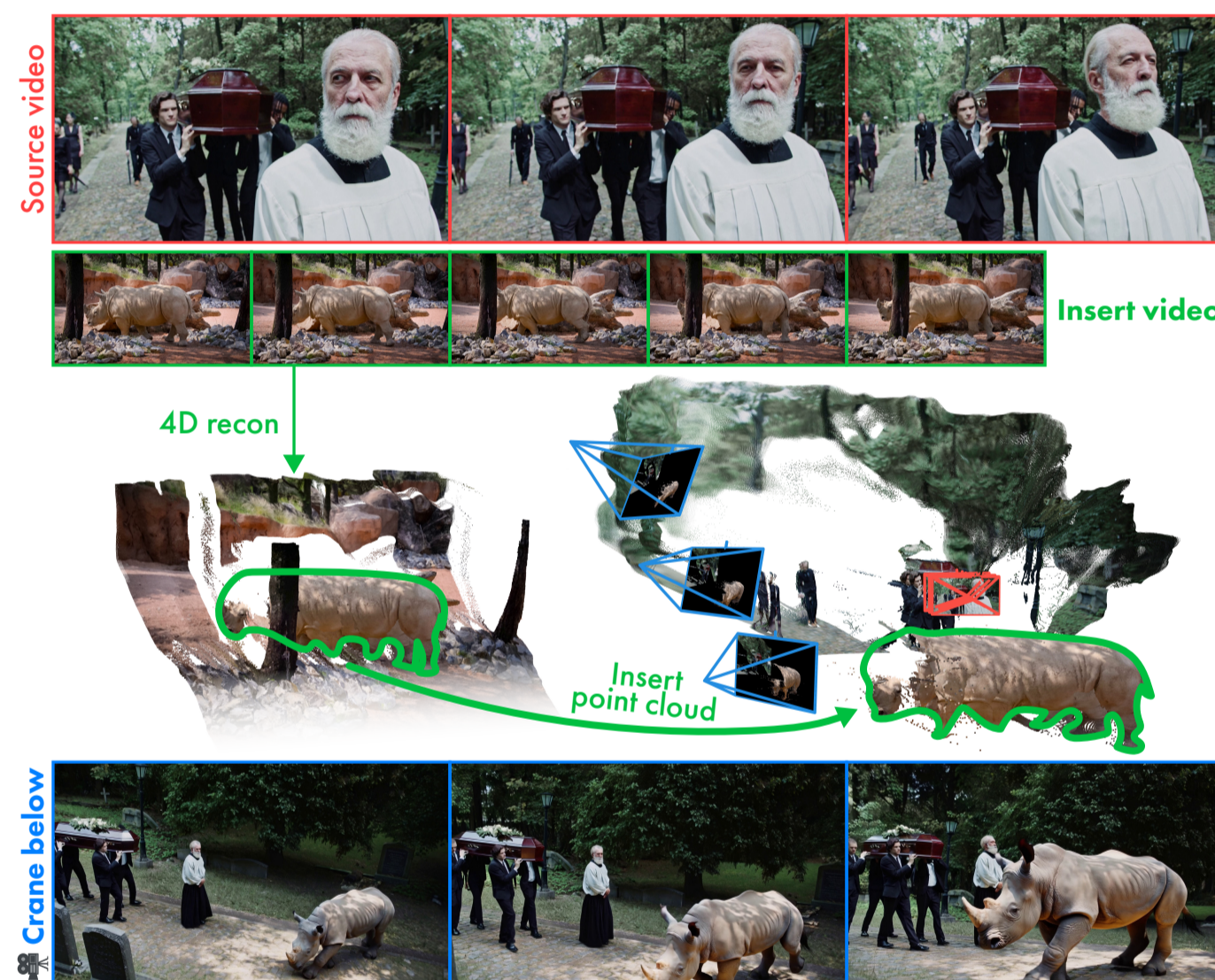
<sup>1</sup>Eyeline Labs <sup>2</sup>Netflix <sup>3</sup>Columbia University <sup>4</sup>UCLA <sup>5</sup>Stony Brook University <sup>6</sup>University of Oxford

### Video reshooting



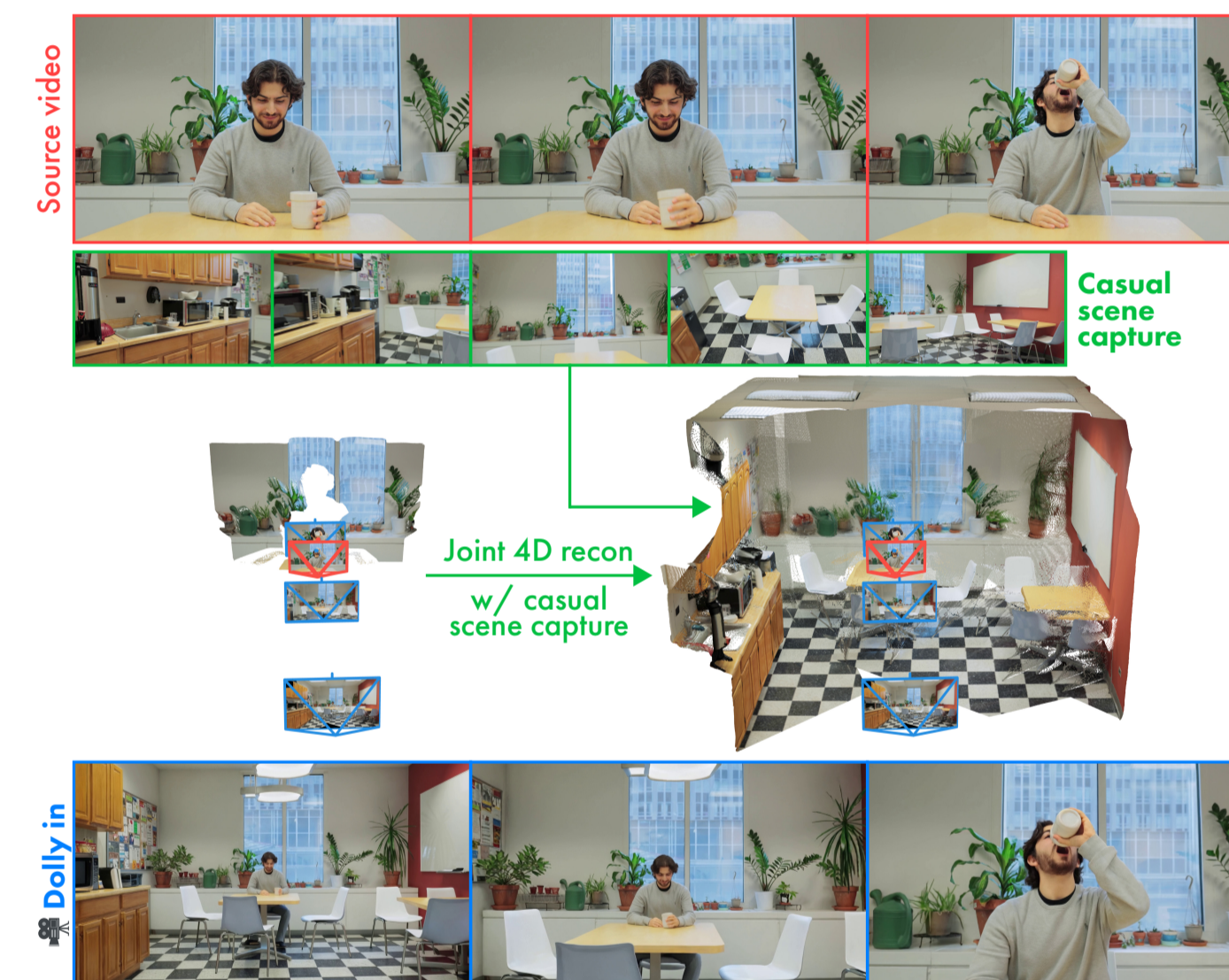
### 4D scene recomposition

Transform, duplicate, remove, or insert anything by editing the 4D point cloud!



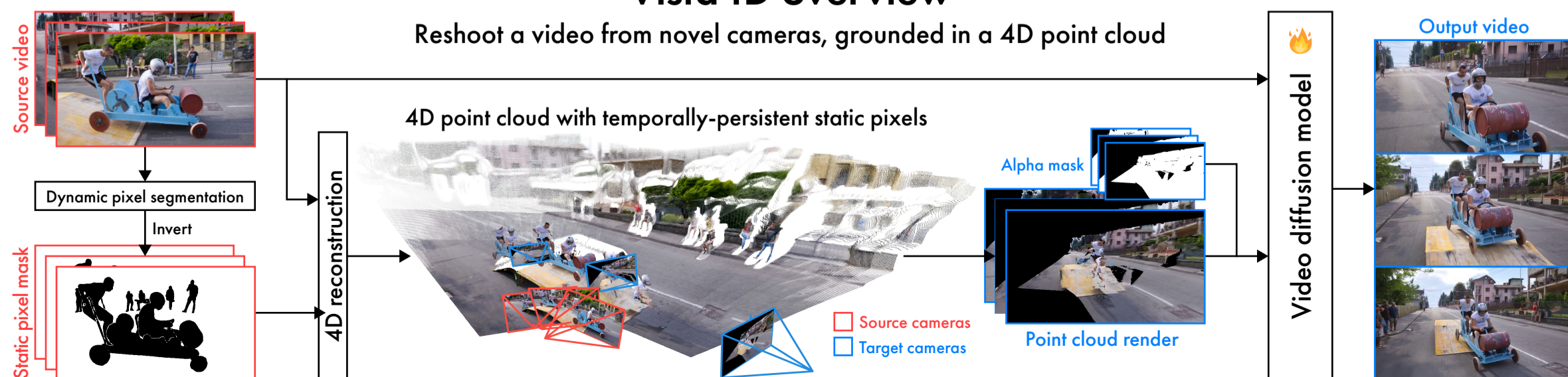
### Dynamic scene expansion

Reduce hallucinations beyond the source via joint 4D recon with scene captures!



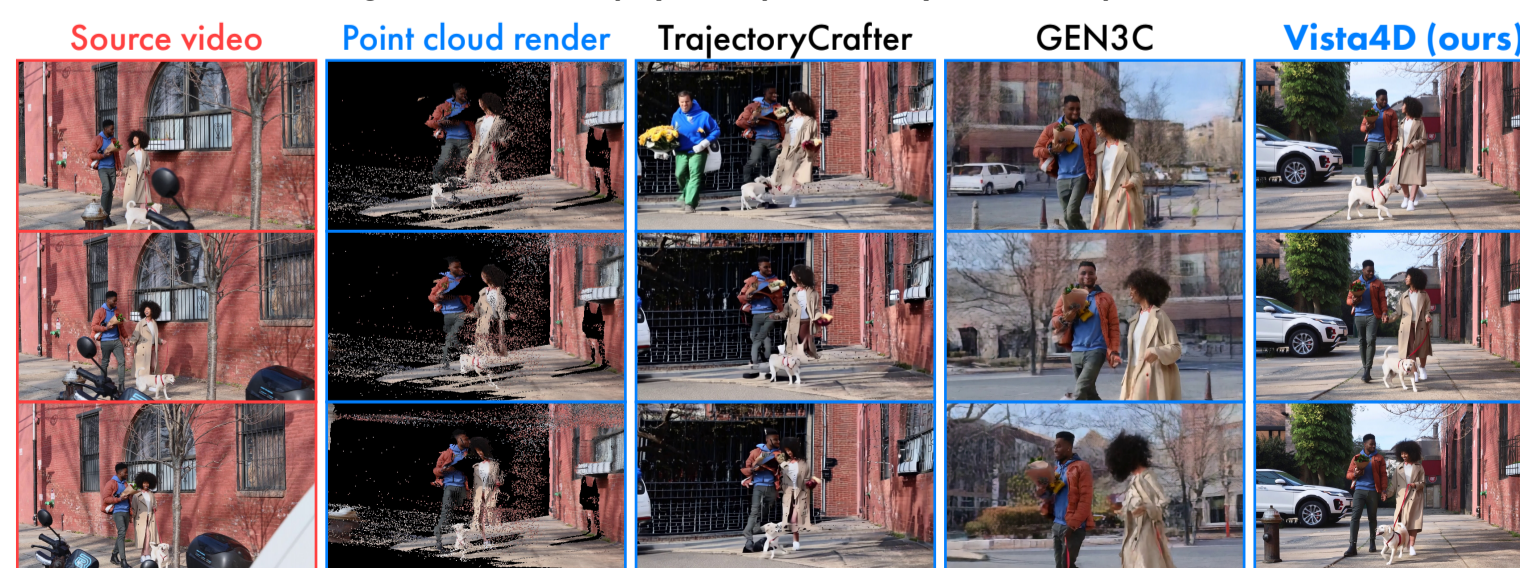
### Vista4D overview

Reshoot a video from novel cameras, grounded in a 4D point cloud



### Comparison to baselines

Vista4D maintains geometric and physical plausibility under imprecise 4D reconstruction



### Robustness to 4D reconstruction artifacts

