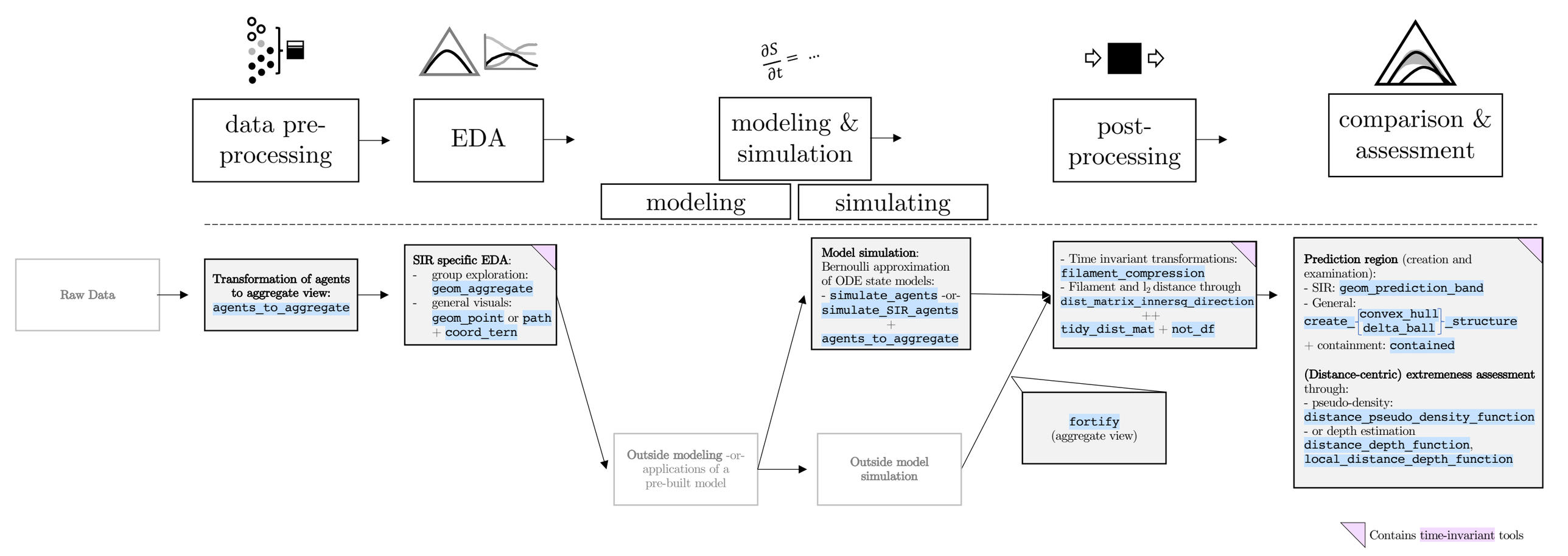
data pre-processing
EDA
$\frac{\partial S}{\partial t} = \dots$
modeling & simulation
modeling
simulating
post-processing
comparison & assessment
Raw Data
Transformation of agents to aggregate view:
agents_to_aggregate
SIR specific EDA:
- group exploration:
geom_aggregate
- general visuals:
geom_point or path
+ coord_tern
Outside modeling -or- applications of a pre-built model
Model simulation:
Bernoulli approximation of ODE state models:
- simulate_agents -or-
simulate_SIR_agents
+
agents_to_aggregate
Outside model simulation
- Time invariant transformations:
filament_compression
- Filament and $l_2$ distance through
dist_matrix_innersq_direction
++
tidy_dist_mat + not_df
fortify
(aggregate view)
Prediction region (creation and examination):
- SIR: geom_prediction_band
- General:
create_[convex_hull | delta_ball]_structure
+ containment: contained
(Distance-centric) extremeness assessment through:
- pseudo-density:
distance_pseudo_density_function
- or depth estimation
distance_depth_function,
local_distance_depth_function
Contains time-invariant tools