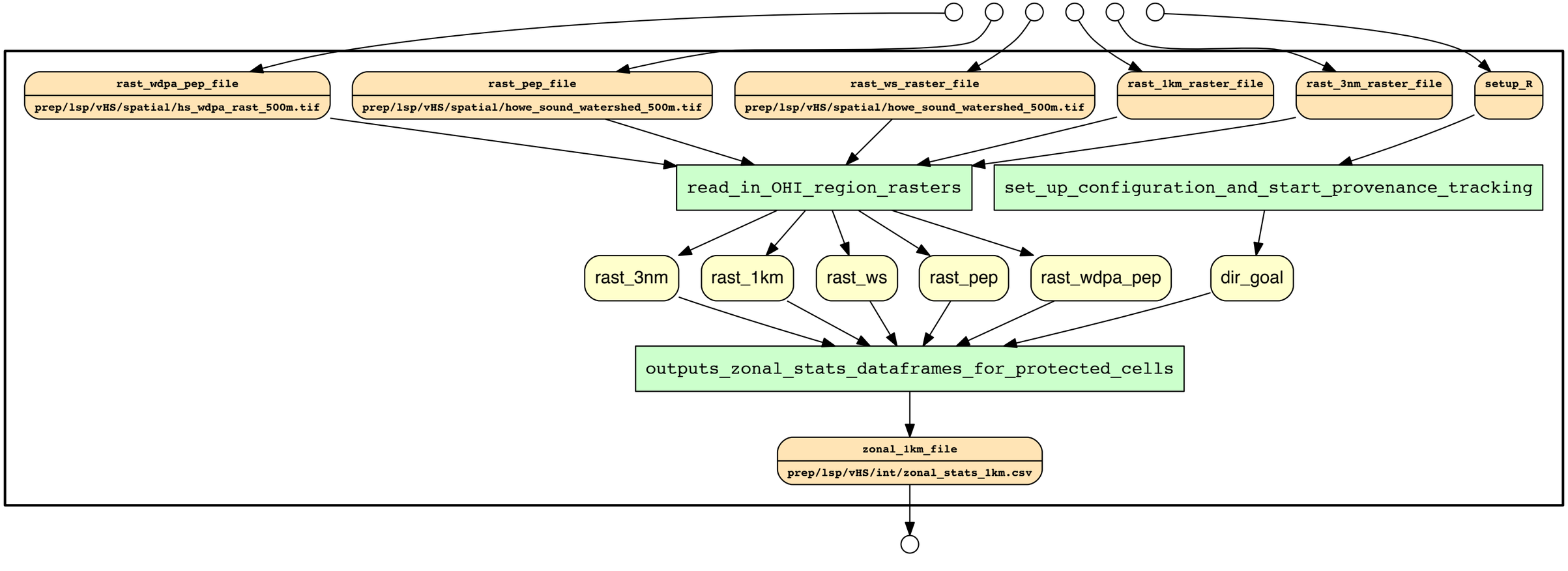calculate_goal_model