



HCL STARS SCHEMA WORKSHOP

CORVINUS
DATA SCIENCE ORIENTATION

AGENDA, SETUP

- 🏆 The context of the workshop
- 🏆 Theory – regression models
- 🏆 The backstory
- 🏆 You form heterogeneous teams. you will need some **coding** skills, some **economy** theory, some **data science** theory - we present what is needed today - so choose your team members wisely.
- 🏆 Personas and datasets.
- 🏆 Teams draw a persona with related goals and then work on solving the problem.
- 🏆 Teams summarize the findings in a presentation –designate a speaker to present the results (Template is provided)
- 🏆 The jury announces the final results.

CONTEXT

- 🏰 You will **apply data science skills** to a „real world” problem; in our case it will be a regression model.
- 🏰 You will derive, how the original problem can be addressed and how the processed data set can be used to answer the questions
- 🏰 Finally, you need to present and explain your findings and the solution
- 🏰 Each team will have a separate persona who has a specific goal and some questions.
- 🏰 You are free to redefine / complete the questions as long as you can contribute to reaching the goal

THEORY

- 👑 Regression models
- 👑 Intuition
- 👑 Specifics
- 👑 Evaluation
- 👑 The process

BACKSTORY

Westeros is cool! The 9 great houses are still there, but there has been peace all around the world for eons. Dragons are tamed, and different kinds of sport replace fighting for real. People live healthy and prosperous lives, access to education is commonplace, and technology innovation through the development of transportation, IT and communication fueled economic growth.

A team of young Essos citizens embark on an adventurous journey in Westeros to explore the possibilities of the continent.

- 👑 **Breyna** is an influencer, who regularly vlogs about her journeys. Her followers are numerous. Her **goal** is to maximize profit and influence. (Her revenue and influence is proportional with the population and rating of the town she stays at.)
- 👑 **Alberet** is an enthusiastic dragon trainer organizing dragon „fights” – calm down, this is just a sport! His **goal** is to reach as many spectators as possible, and make a decent profit (1% of the folks will visit the show eventually).
- 👑 **Decran** is a spy, who is disguised as a musician organizing festivals. His **goal** is to organize a music tour next year for younger folks and as an undercover agent to also visit all major eastern ports to investigate their vulnerabilities.
- 👑 **Ayenna** is the broadcasting producer of the 4-yearly Westeros Football Cup (9 teams, 9 matches, 18 days). Her **goal is** to maximize the ad revenue (porportional to the population of the match city) and minimize the accomodation cost of the crew of 12.
- 👑 **Edlin** is an avid tourist. His **goal** is to visit as many places as possible, while spending at least one night in a certain place.

PERSONAS

Your team selects one character, and work on helping the person achieve their goals.

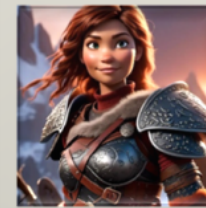
You have:

- A **Regression** task
- 4-6 Simple **Questions** (3 should be answered as a minimum)
- A Complex Question (**WDYT**: „What do you think”), where you have to use your evaluation and analytical skills
- You have the liberty to specify details we did not provide, but be reasonable – the Jury will have the final decision!

PERSONAS

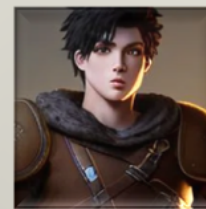
BREYNA LINSTER

Breyna is an influencer, who regularly vlogs about her journeys. Her followers are numerous. Her **goal** is to maximize profit and influence. (Her revenue and influence is proportional with the population and rating of the town she stays at.)



ALBERET EATHE

Alberet is an enthusiastic dragon trainer organizing dragon „fights” – calm down, this is just a sport! His **goal** is to reach as many spectators as possible, and make a decent profit (1% of the folks will visit the show eventually).



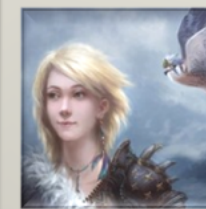
DECRAN JORDAYNE

Decran is a spy, who is disguised as a musician organizing festivals. His **goal** is to organize a music tour next year for younger folks and as an undercover agent to also visit all major eastern ports to investigate their vulnerabilities.



AYENNA TRAEVER

Ayenna is the broadcasting producer of the 4-yearly Westeros Football Cup (9 teams, 9 matches, 18 days). Her **goal** is to maximize the ad revenue (porportional to the population of the match city) and minimize the accomodation cost of the crew of 12.



EDLIN FOSSOWAY

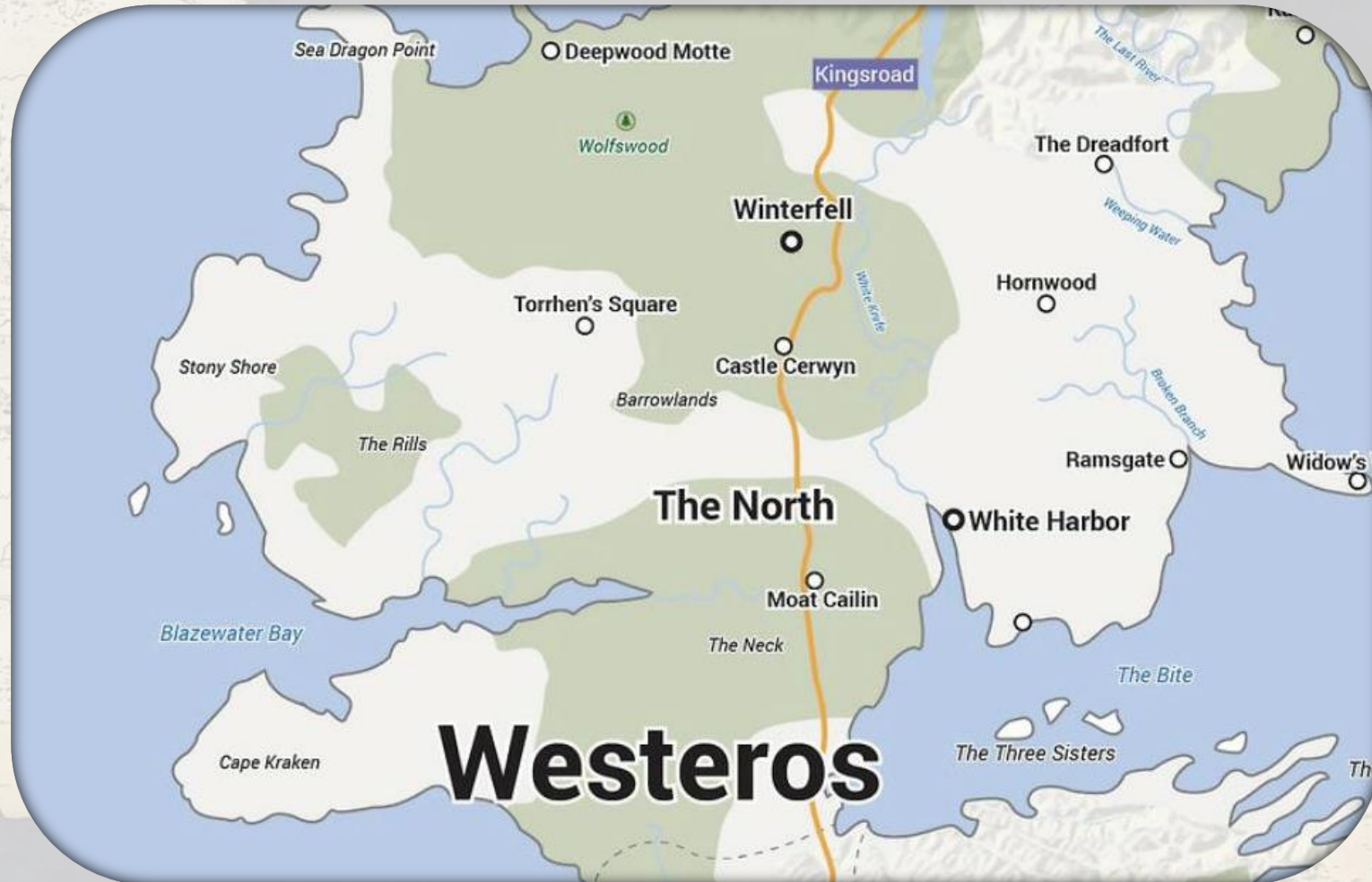
Edlin is an avid tourist. His **goal** is to visit as many places as possible, while spending at least one night in a certain place.



THE KNOWN WORLD

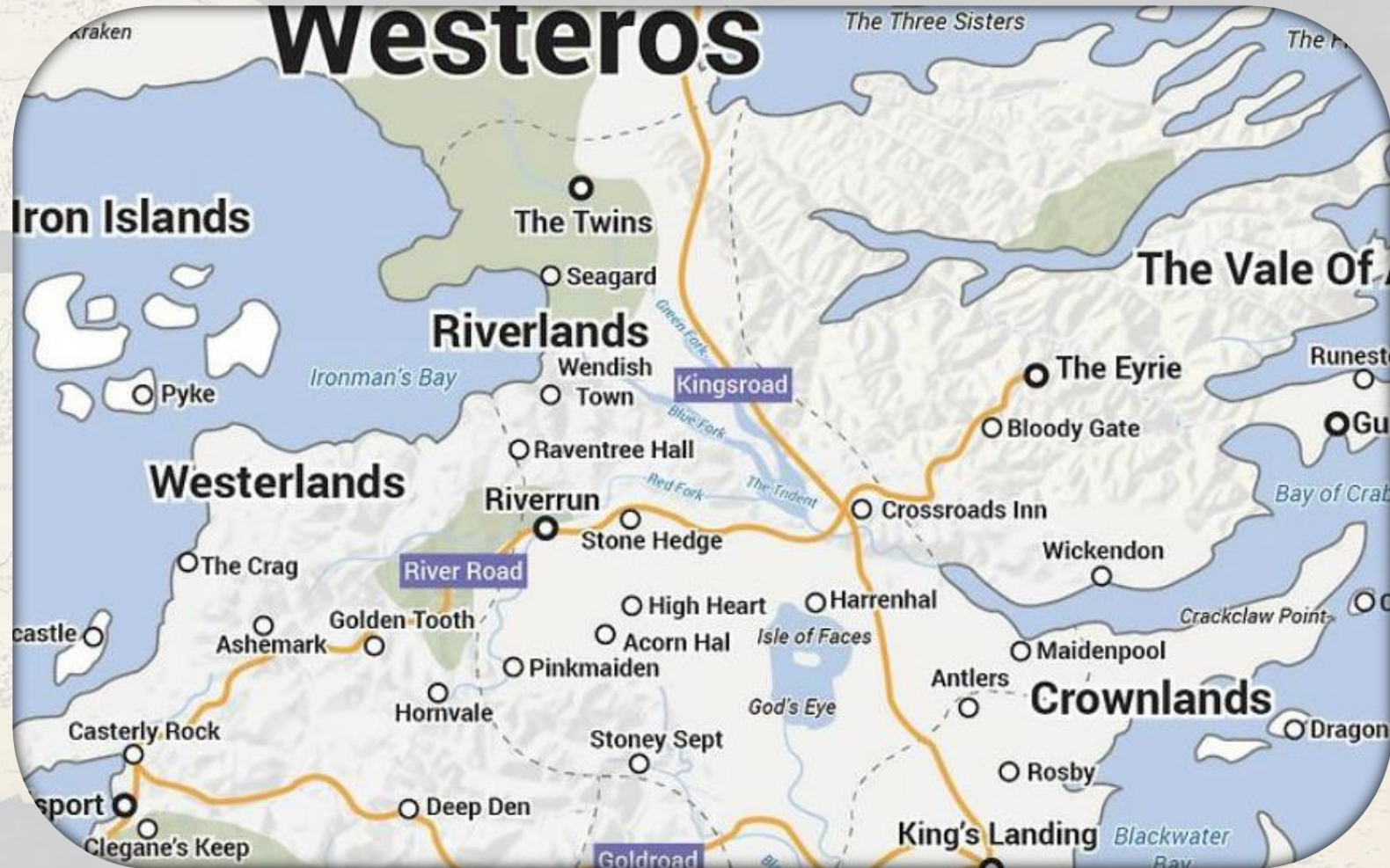


THE NORTH HOUSE STARK OF WINTERFELL

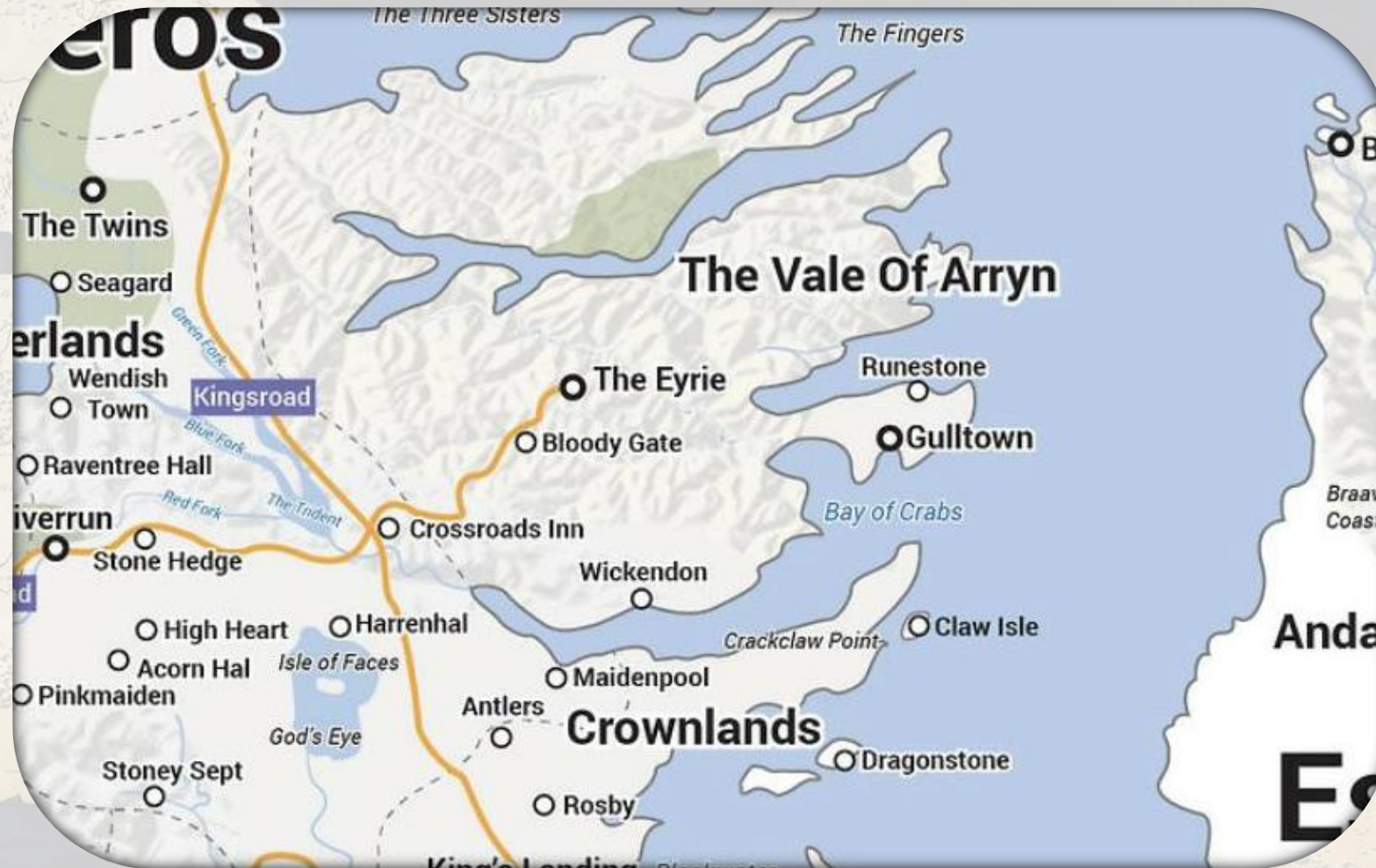




THE RIVERLANDS HOUSE TULLY OF RIVER RUN



THE VALE OF ARRYN HOUSE ARRYN OF THE EYRIE



THE WESTERLANDS HOUSE LANNISTER OF CASTERLEY ROCK



THE CROWNLANDS HOUSE BAR AT HEON OF KING'S LANDING



THE REACH HOUSE TYRELL OF HIGHGARDEN



THE STORMLANDS HOUSE BAR ATHEON OF STORM'S END



DORNE HOUSE NYMEROS MARTELL OF SUNSPEAR



CITY LIST

Region	Capital	Important cities
The North	Winterfell	<i>White Harbor, Widow's Watch, Karhold, Flint's Finger</i>
The Iron Islands	<i>Pyke</i>	<i>Harlow Port, Orkmont Villa</i>
The Riverlands	Riverrun	<i>Seagard, The Twins, Maidenpool, Stony Sept</i>
The Vale of Arryn	The Eyrie	<i>Gull Town, Runestone, Ironoaks, Longbow Hall</i>
The Westerlands	<i>Casterley Rock</i>	<i>Lannisport, Crakenhall, The Crag, Silverhill</i>
The Crownlands	<i>King's Landing</i>	<i>Dragonstone, Sharp Point, Duskendale, Rosby</i>
The Reach	Highgarden	<i>Old Town, Three Towers, Old Oak, Longtable</i>
The Stormlands	<i>Storm's End</i>	<i>Greenstone, Nightsong, Bronzegate, Summerhall</i>
Dorne	<i>Sunspear</i>	<i>Yronwood, Starfall, Hellholt, Godgrace</i>



PRESENTATION TEMPLATE

PROBLEM



QUESTIONS



MODEL CREATION (OPT)



FINDINGS



RECOMMENDATIONS

