Introduction

Outline

1. Potato: The crop (2 Paragraphs)
    i) Overview context of the crop
    ii) Evolutionary history
    iii) Potato as a universal field crop
2. Breeding potato (2 Paragraphs)
    i) Initial hobby breeding
    ii) Development of potato breeding into 20th century
3. Lack of genetic improvement in potato (2 Paragraphs)
    i) Less progress in potato relative to other crops
    ii) Replication in early generations
    iii) Impact of polyploidy
    iv) Large selection surface
4. Potential Technologies for breeding potato (2 Paragraph)
    i) Discuss alternatives to clonal potato breeding
    ii) Technologies such as MAS, QTL mapping, genomic selection
5. Genomic driven Hybrid breeding
    i) Conversion to hybrid breeding
    ii) Seizing other tools and technologies used in hybrid breeding
    iii) Utility of TPS based cropping systems and supply chains
6. Statistical modelling needed to drive change in potato
    i) Conducting and evaluation of single-trials in potato
    ii) Genotype data
    iii) Phenotypic and genotypic data for large hybrid populations
7. Introducing chapters
    i) Short summary of the following chapters