**Case study No. 2**

**Theoretical study on 4 genetically modified maize maize plants for intended food/feed uses**

* Organism: **maize**
* Trait(s): **different traits**
* Genetic modification: e.g. trait and **antibiotic resistance** of veterinary relevance and generally operating in micro-organisms
* Conditions of release: **seeds** are transported and processed to feed

**You get 4 hypothetical pathways to harm (illustrated)**

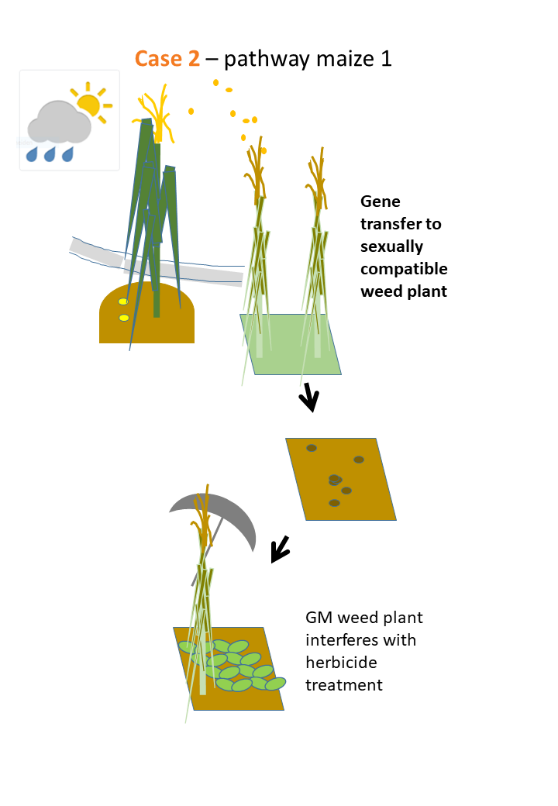
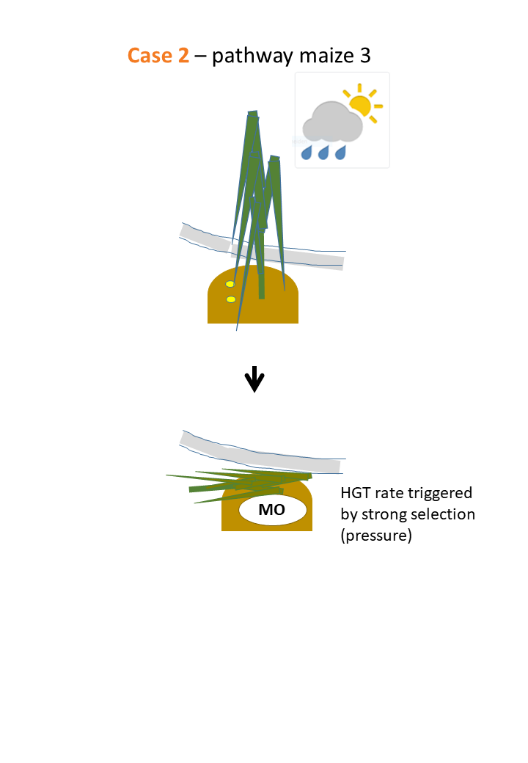
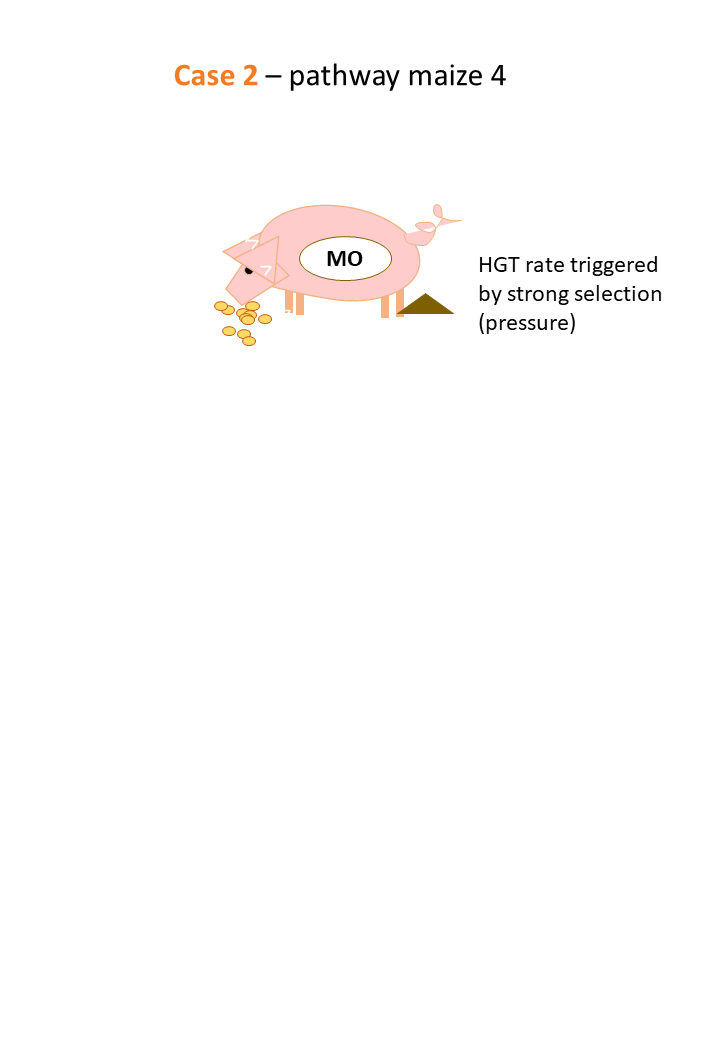
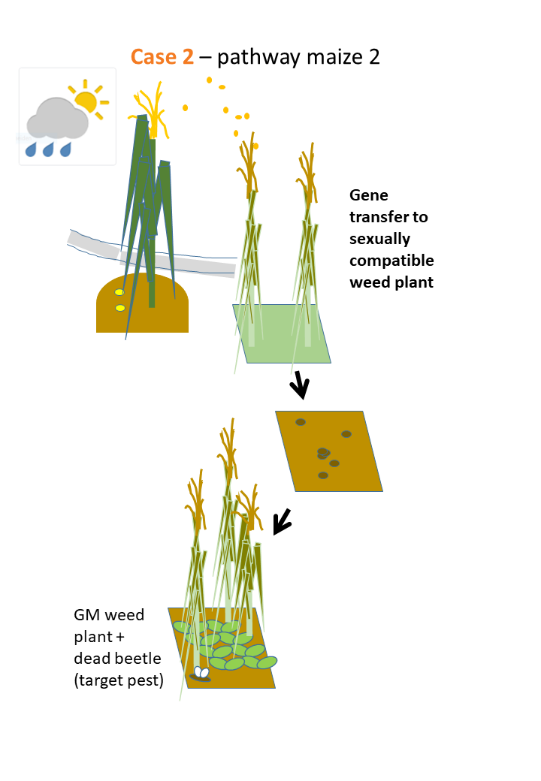
For each illustrated example of a hypothetical pathway to harm:

**Task 1**: describe the hypothetical adverse effect and identify **relevant areas of risk**

**Task 2**: which are (hypothetical) **protection goals** of concern?

|  |  |  |  |
| --- | --- | --- | --- |
| Hypothetical pathway to harm | Potential adverse (hypothetical) effect | Protection goal (hypothetical) | Areas of risk |
|  |  |  | Persistence and invasiveness including plant-to-plant gene flow (**P&I**) |
|  |  |  |
|  |  |  | Interactions of the GMP with non-target organisms (**nto**) |
|  |  |  |
|  |  |  | Plant to micro-organisms gene transfer-Horizontal gene transfer (**HGT**) |
|  |  |  |
|  |  |  | Interactions of the GMP with target organisms (**to**) |
|  |  |  |

*Supporting material for both tasks: illustrated hypothetical pathways to harm (pathway maize 1 to pathway maize 4)*

****