

# Part 1: Problem and actor analysis – Task sheet

## Module 1.1: Analyze a multi-actor problem

1. Read the “Case vignette 1” document while paying attention to the problem as it is described and the perspectives of the different actors mentioned (government, industry, civil society, farmers).
2. Write a short problem statement for at least 2 of the 4 actors, which specifies what the problem is about from the perspective of that actor. E.g. :

*From the perspective of [mention actor], the wastewater treatment and resource recovery problem consists in [mention the core concern].*

3. Write down which other actors than those mentioned in the vignette, who have a high influence and high interest to develop solutions to the described problem.
4. Review your results and reflect about the similarities and differences from the interpretation provided in the “Result interpretation 1”-file.

Note that the term “actor” here means to refer to “those parties that have a certain interest in the system and/or that have some ability to influence that system, either directly or indirectly”<sup>1</sup>.

For further reading consider Chapter 2 on *Problem Formulation in Complex Environments* and chapter 4 on *Actor Analysis* in Enserink et al., 2022, see <https://textbooks.open.tudelft.nl/textbooks/%20catalog/book/50>

## Module 1.2: Problem structuring methods for problem and actor analysis

1. Read Mingers, J., & Rosenhead, J. (2004). Problem structuring methods in action. *European Journal of Operational Research*, 152(3), 530-554. doi:10.1016/S0377-2217(03)00056-0
2. Think about which of the mentioned PSM methods you deem more or less suitable for the multi-actor problem in Pavipolis.
3. Watch the 15’ video on problem structuring methods and their application in the Pavitra Ganga project (Video presentation 1)

---

<sup>1</sup> Enserink, B., et al. 2022. *Policy Analysis of Multi-Actor Systems*. Eleven. The Hague (NL), p. 80.