IWMPRAISE — H2020-SFS-2016-2017/H2020-SFS-2016-2 – WP2 - Inspiration sheet no.32
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AUTOMATED INTRA-ROW WEED CONTROL IN FIELD TRANSPLANTS

IMPLEMENTATION

- Prepare a workable and even soil with few stones and crop residues.
- Prepare a stale seedbed and control early flushes of weed seedlings prior to transplanting.
- Ensure uniform spacing of transplants between and within crop rows.
- Target automated intra-row weeding against small-sized weed plants, < 4-5 true leaves.
- Sunny and dry weather during and after application improves efficacy.
- Aim for weeding as close to crop plants as possible but still without injuring them.
- Weeds growing in close proximity to crop plants that survive automated intra-row control must be removed in low-competing crops like onion and leek.

Figure 1 - Automated intra-row weeding in lettuce with *Robovator* (www.visionweeding.com)

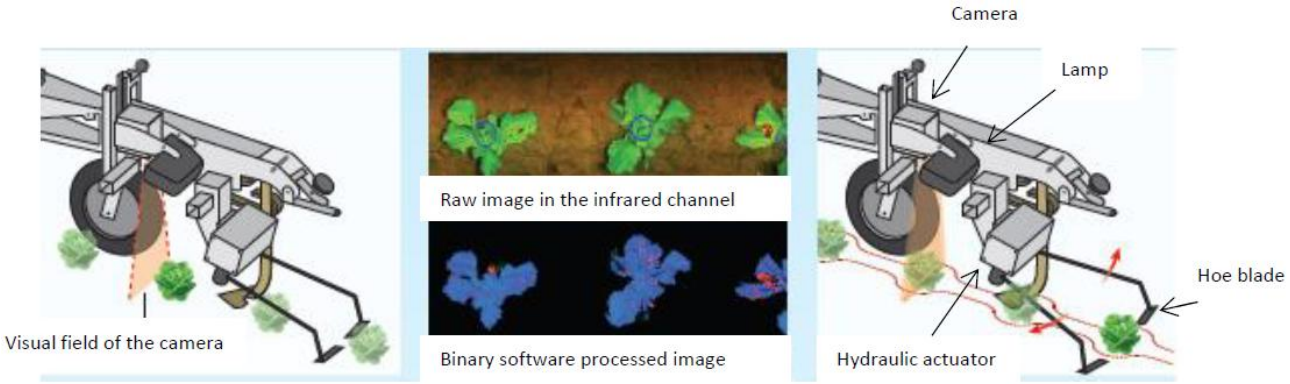

Figure 2 - Principles of a vision guided intra-row weeder (Melander et al., 2015, with permission from Crop Protection and Enginøren)

Video with vision guided intra-row weeding in lettuce: http://www.visionweeding.com/wp-content/uploads/2020/09/robotic-weeding-sugar-beets.mp4

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