

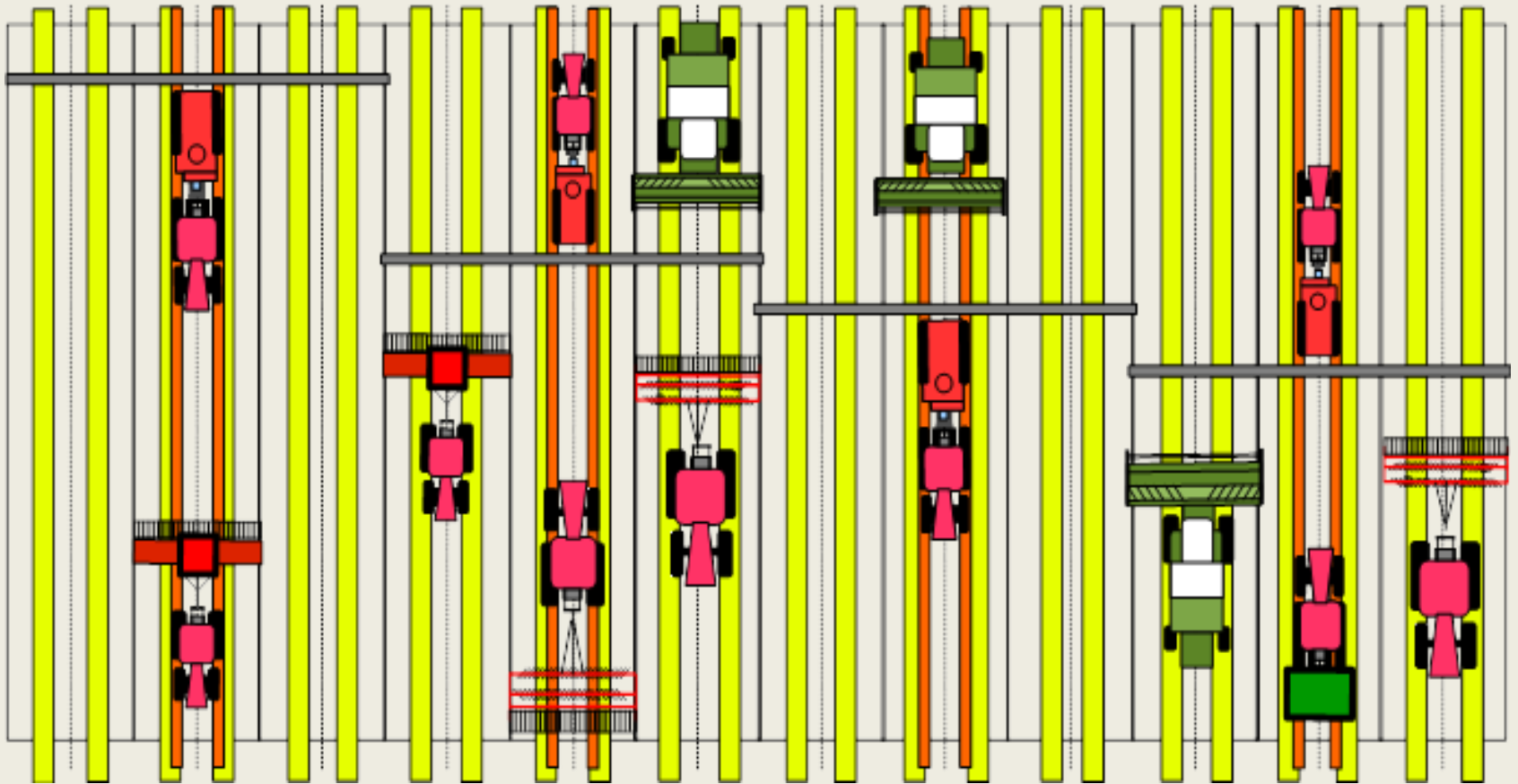
System with permanent traffic lanes practised in a 10-ha field (system OutTrac)

A field trial on a land of size 10 ha was established in spring 2010. The system with permanent traffic lanes at the module of machines working width 6 metres is applied on the plot for 5 years

Field operations and machines

| Field operation | Machines | Working width [m] | Distance of tracks [mm] | Tyre width [mm] |
|---------------------------------|---|-------------------|-------------------------|-----------------|
| Shallow loosening | CASE 335 + FARMET Hurikan 600 | 6 | 2220 | 720x2 |
| Medium deep loosening | CASE 335 + Simba SLD 600 | 6 | 2220 | 720x2 |
| Sowing | NEW HOLLAND 7060 + VÄDERSTAD Rapid 600P | 6 | 2150 | 500x2 |
| Mineral fertilizers application | ZETOR 10145 + AMAZONE 1000 | 18 | 1800 | 300x2 |
| Pesticide application | CASE JX 1100U + AGRIO NAPA 18 | 18 | 1800 | 320x2 |
| Harvest | CLAAS Lexion 460 | 6 | 2750 | 650x2 |

Organized way of controlled traffic on the field in the system OutTrac



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Main results

- **The area without wheel tracks accounted for 68% of the area of this land when the working width module of 6 m was used on an experimental land.**
- **An important contribution is an increase of soil tillage quality in the most part of the field. Concentration of wheel tracks into permanent lines improved conditions for the movement of machinery on the field.**
- **The system with permanent traffic lanes made it possible to increase the soil capacity of taking up water under intensive rainfall – in comparison to a part of the land with random passes.**
- **The soil loss by wash during water surface runoff was also lower with controlled traffic compared to the variant with random passes. Therefore it is to assume that suitable application of the CTF system may be a contribution to soil protection against water erosion.**

Dumitru Gutu, Josef Hůla

Czech University of Life Sciences Prague, Faculty of Engineering, Kamýcká 129, 165 21 Prague 6

– Suchbát, Czech Republic hula@tf.czu.cz

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