

VE in the Logistics World

Ariella Janka Tarjani, *AVS*; Istvan Tarjani, *CMC, CVS, PVM, TVM*
FOKUSZ-2 Ltd.

Canadian Value Symposium 2017. Montreal (QC)



BACKGROUND

- Background – Environment of the project
- A multinational company wishes to establish a logistical centre in Hungary.
- Objectives:
 - To employ the least human resources possible. Joining to the **Industry 4.0** strategy.
 - The workforce released has to be further employed.
 - The remote warehouse tenements and the other production sites have to be terminated.
 - Shorter service time has to be achieved.
 - Ergonomic workplaces have to be established for the workers.



THE BUSINESS SECTOR

What kind of business sector?

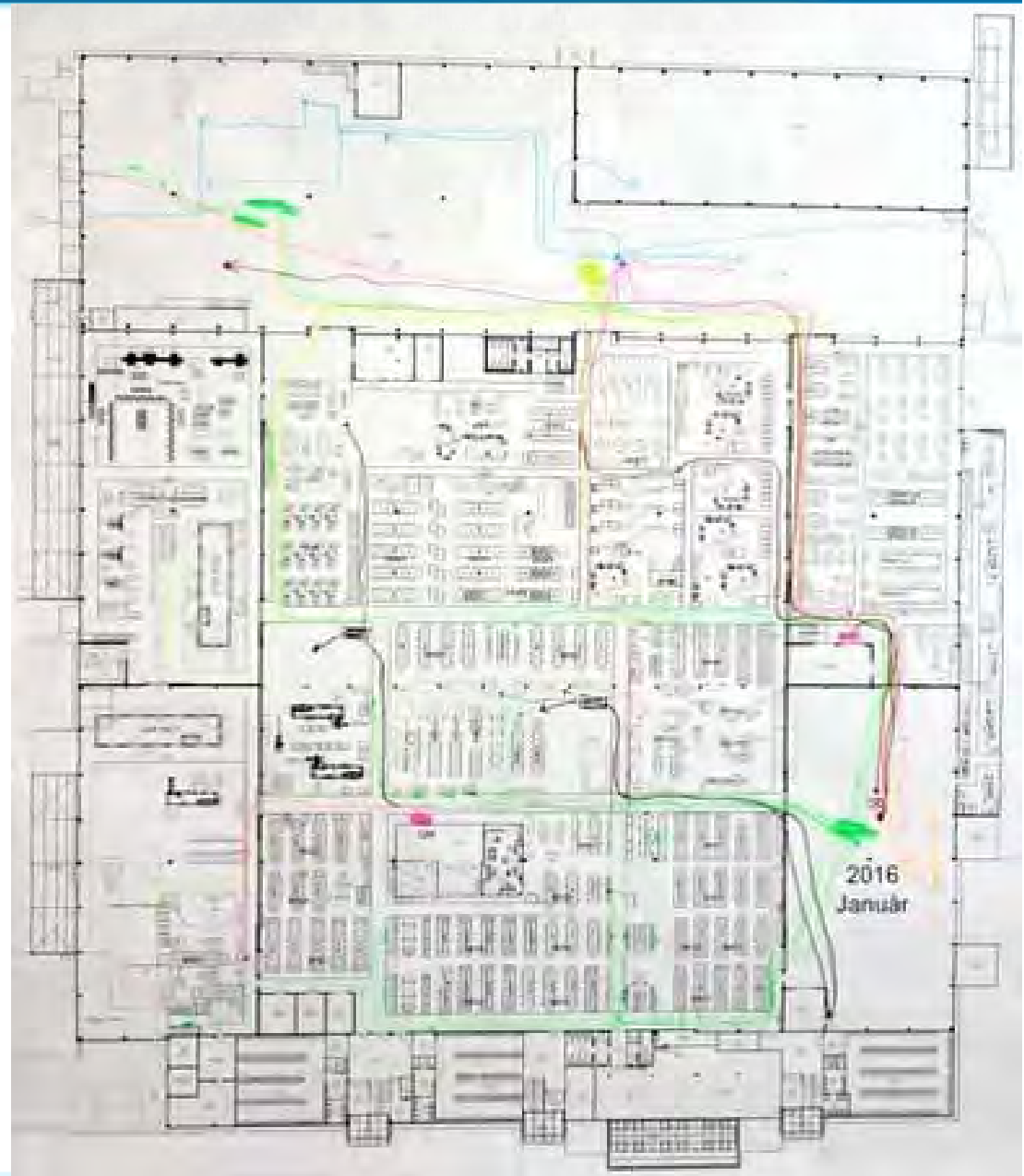
- Connecting cable products for several industries. (Automotive, Telecommunication, Healthcare, etc.)



THE PAINFUL RECOGNITION

Current situation

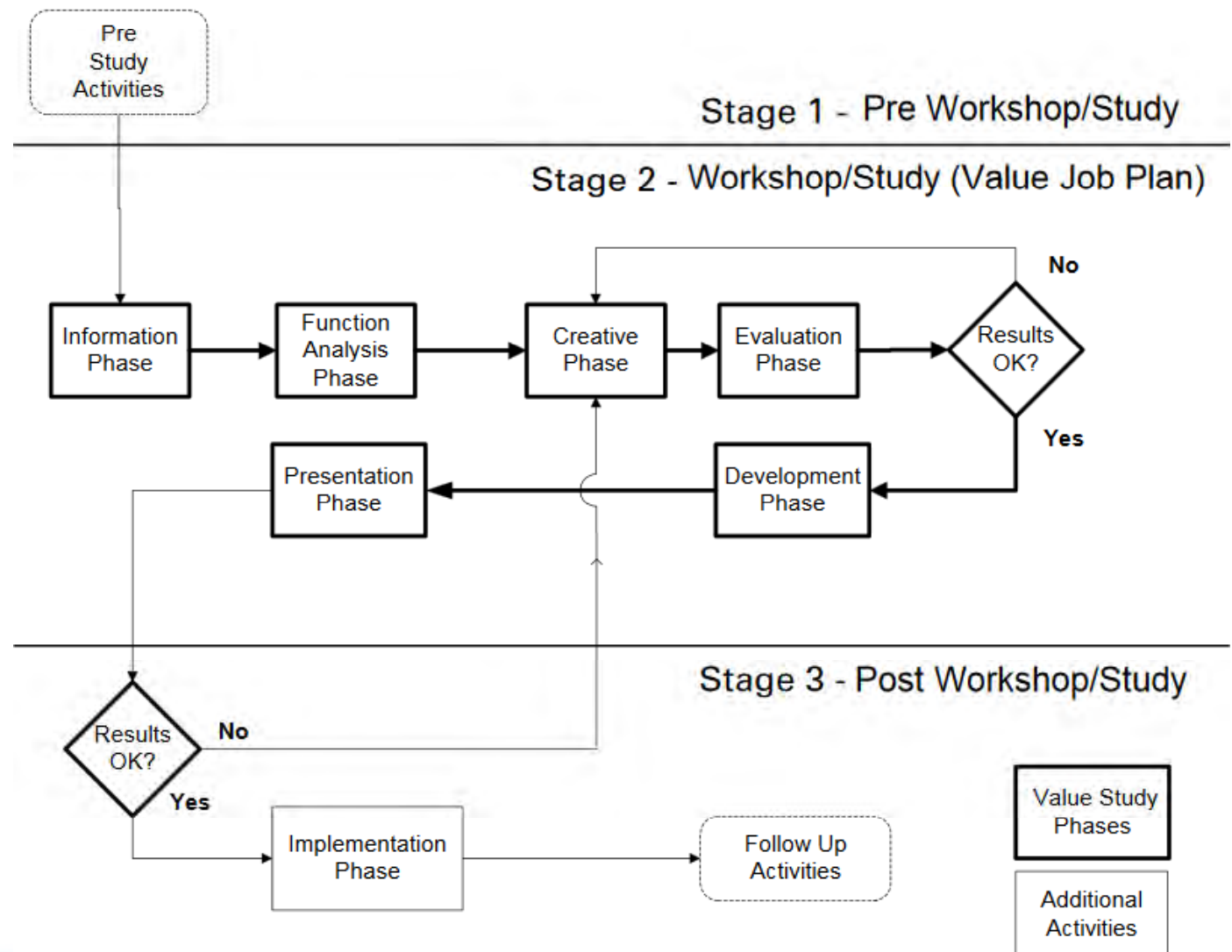
- Empty trips.
- Up to 250 trips made/shift.
(In every 8 hours)
- Unplanned routes.
- Time consuming searches.
- Lack of visualised storage.
(„Spagetti” diagram)



THE JOB PLAN

Commitment

- Based on the Value Methodology Standard.
- Well-known steps.



THE FUNCTIONAL ANALYSIS (1.)



Functions

Improve Performance

Store Material

(storage, inputs-outputs)

Move Component

(intralogistic)

Subserve Production

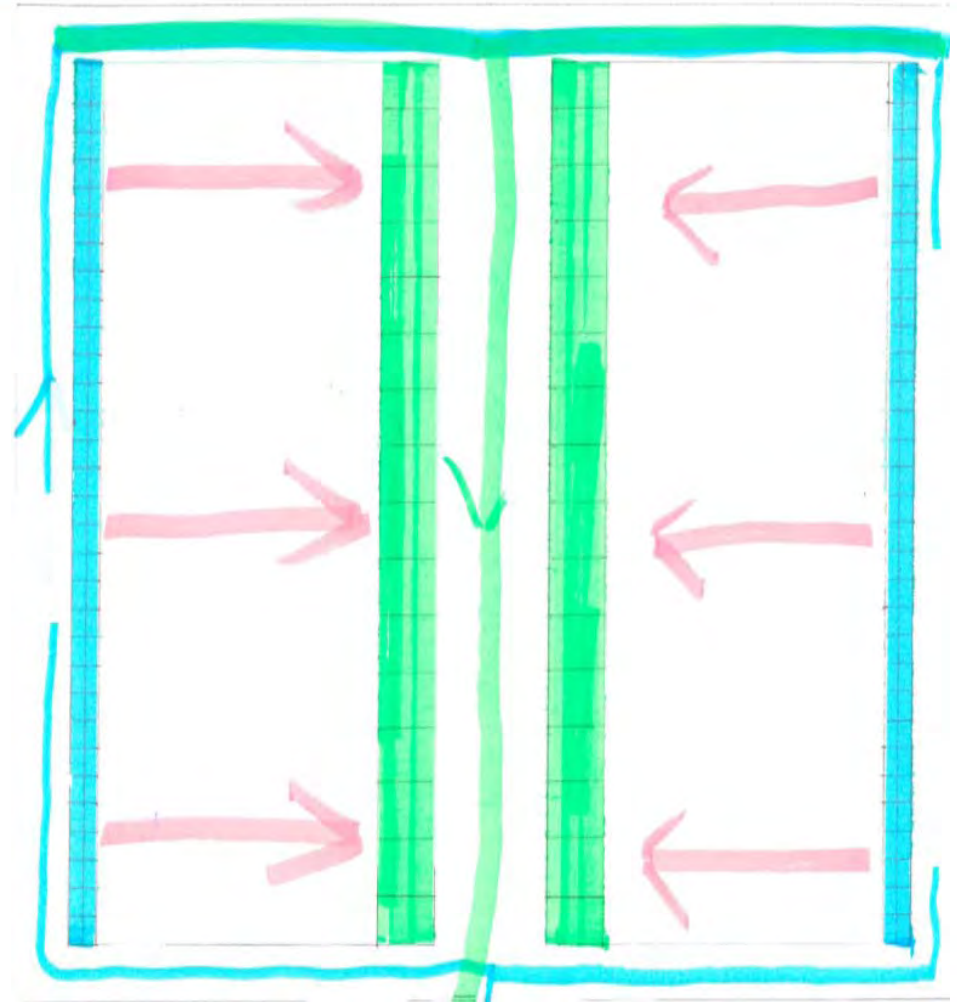
(administration)



INTRALOGISTICS

New solution, New basics

- It is not possible to transform the production halls.
- Material supply for production from 2 sides.
- Removal of the finished goods in the middle.
- The new hall is being built this way in town of Nyirbator in the framework of a green field investment.



LOCATION



The most important ideas obtained as a result of the function analysis:

- Implementing material movement without human intervention.
- Optimised trolley route – with digital planning.
- Programmed places of storage, placement and removal with automatic control.
- Serving the production area with the starting up of a programmed “small train”. Material transport outwards – finished product transport on return trip.
- etc.



SOLUTION

Matching solution

- Serving production from 5 points.
- Introduction of intralogistics.



RESULTS (1.)

Number of suggestions: 66 pcs.



Savings: 884.000 USD (23,72%)

Investment for the approved suggestions:
260.000 USD (6,95%)



RESULTS (2.)

Space demand and space exploitation:

- ❖ The production area may be extended with 1225 m².
- ❖ The logistical area may be extended with 721 m² in case of the narrow corridor warehouse system.
- ❖ The rented warehouse may be terminated.



PROJECT AWARD

VE Project Award – SHVA 2017.

- ❖ The project has been awarded by the SHVA in 2017.



The first publication of the project was on the SAVE Summit 2017.



Oops, my time is Up!



QUESTIONS

VE in the Logistics World

Ariella Janka Tarjani, AVS

Istvan Tarjani, CMC, CVS, PVM, TVM; FOKUSZ-2 Ltd.



Thanks for Your Attention!

Canadian Value Symposium 2017. Montreal (QC)

