STRATEGIC PARTNERSHIP

Leadership 4.0

The Impact of Technology on Leadership Development

MAJ Piotr PIETRAKOWSKI, Ph.D.

Strategic Partnership Project „International Military Leadership Academy" has been financed by the European Commission in the frame od Erasmus+ Programme

Project Goals:

- Redefining leadership for the fourth industrial revolution.
- Implementation of new technologies in the process of shaping leadership competences.
- Defining students' deficiencies in making decisions in every situations.
- Developing new methods to strengthen the psychophysical resilience of future leaders.
- A proposal for training methods in managing challenges.
- Improve the data exchange system in the area of improving the quality of education – best practice.
- Create Common Center for Efective Leadership.

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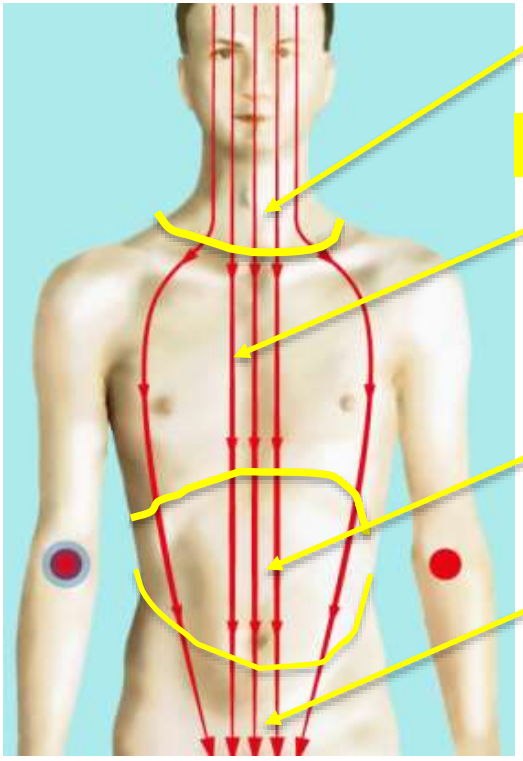
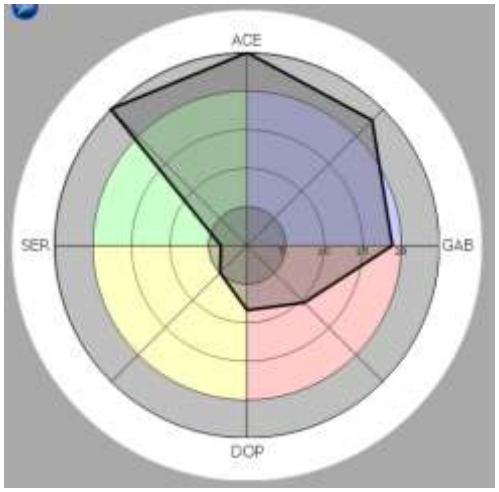
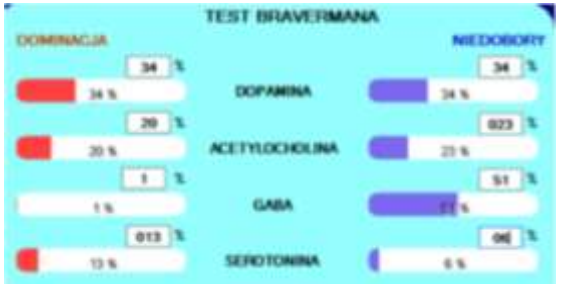
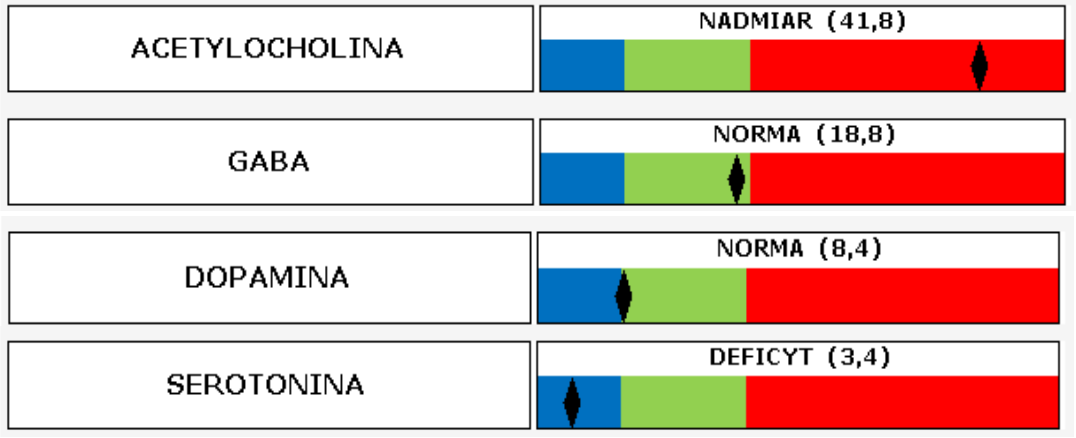
Scanning thermoregulatory diagnostics – assessment of the effects of neurotransmitters



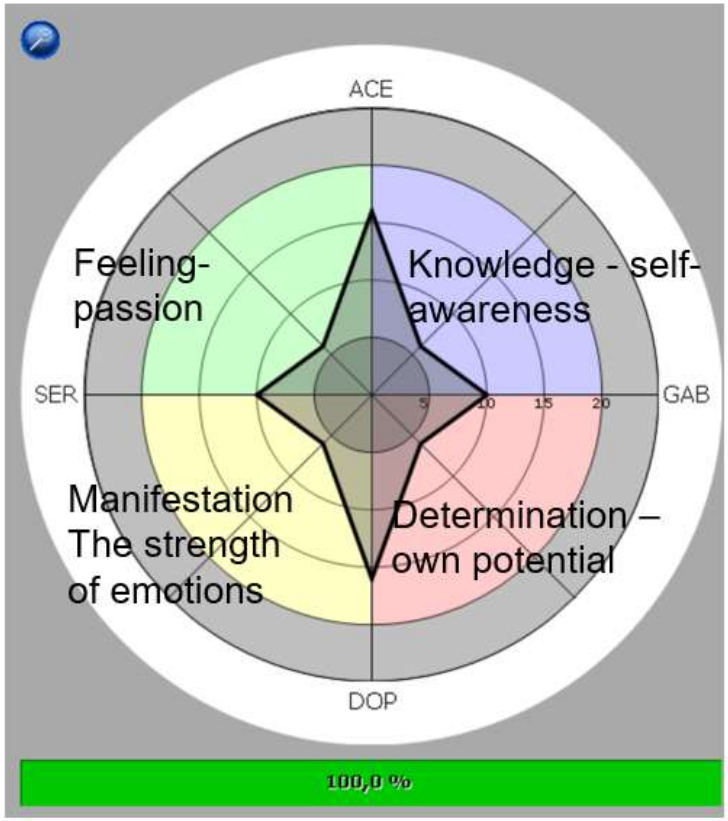


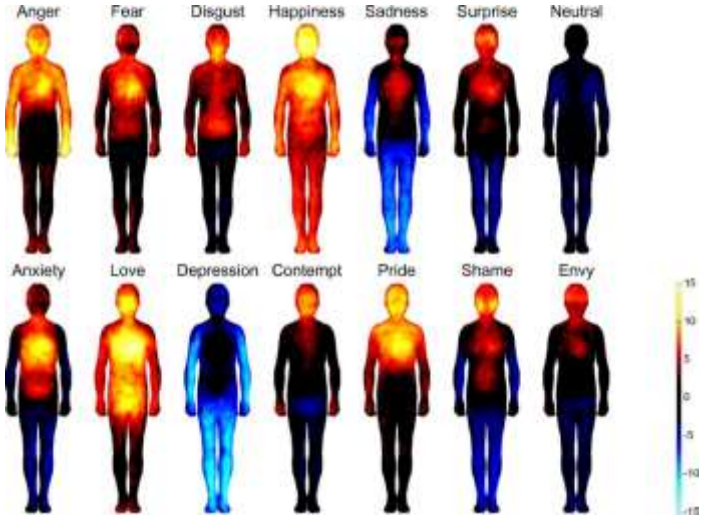


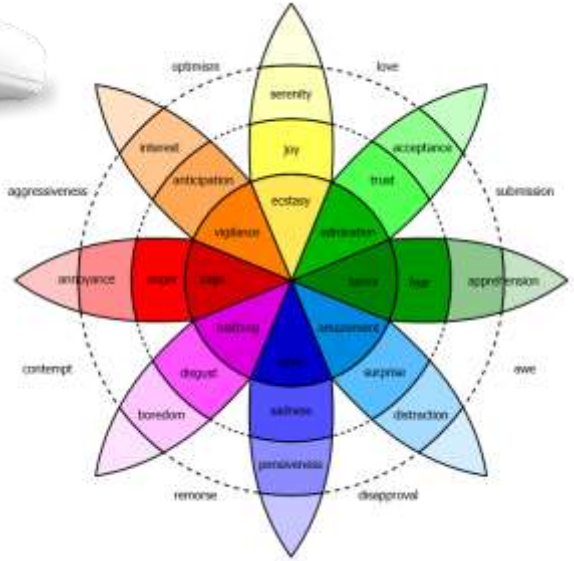


Scanning thermoregulatory diagnostics

We can define the needs of commanding / leadership competences in terms of intellect, emotions, behaviors, vitality







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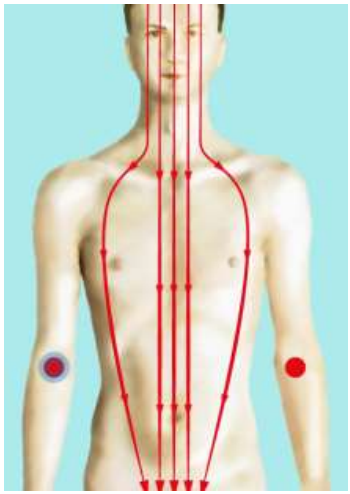
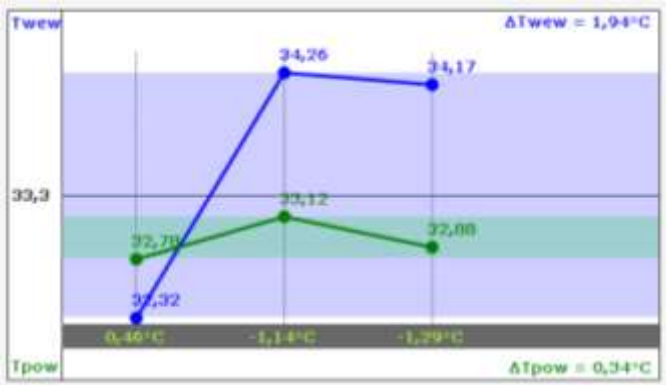
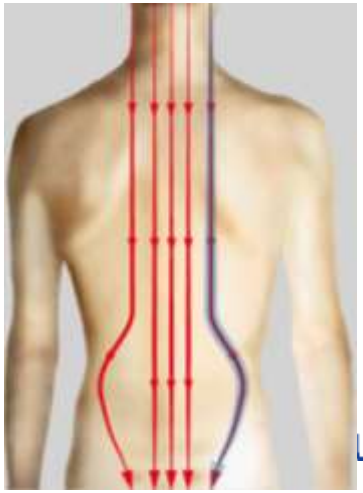
Commission in the frame

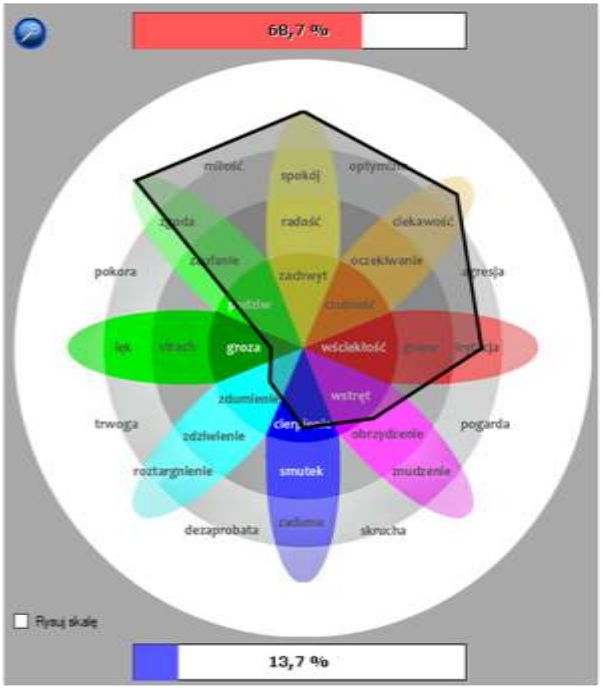
Scanning thermoregulatory diagnostics -physical performance

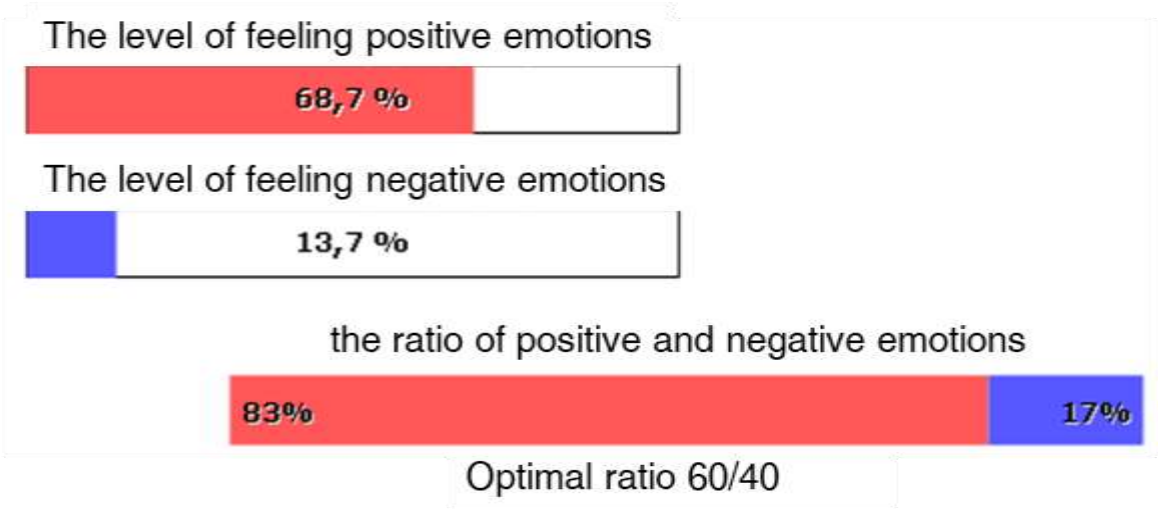






Scanning thermoregulatory diagnostics - Emotional processes





- **Expansion** - the process between feeling anxiety and calm;
- **Condensation** - the process between feeling calm and irritating;
- **Coherence** - the process between feeling angry and suffering;
- **Transformation** is the ability to smoothly transition between all the above processes.

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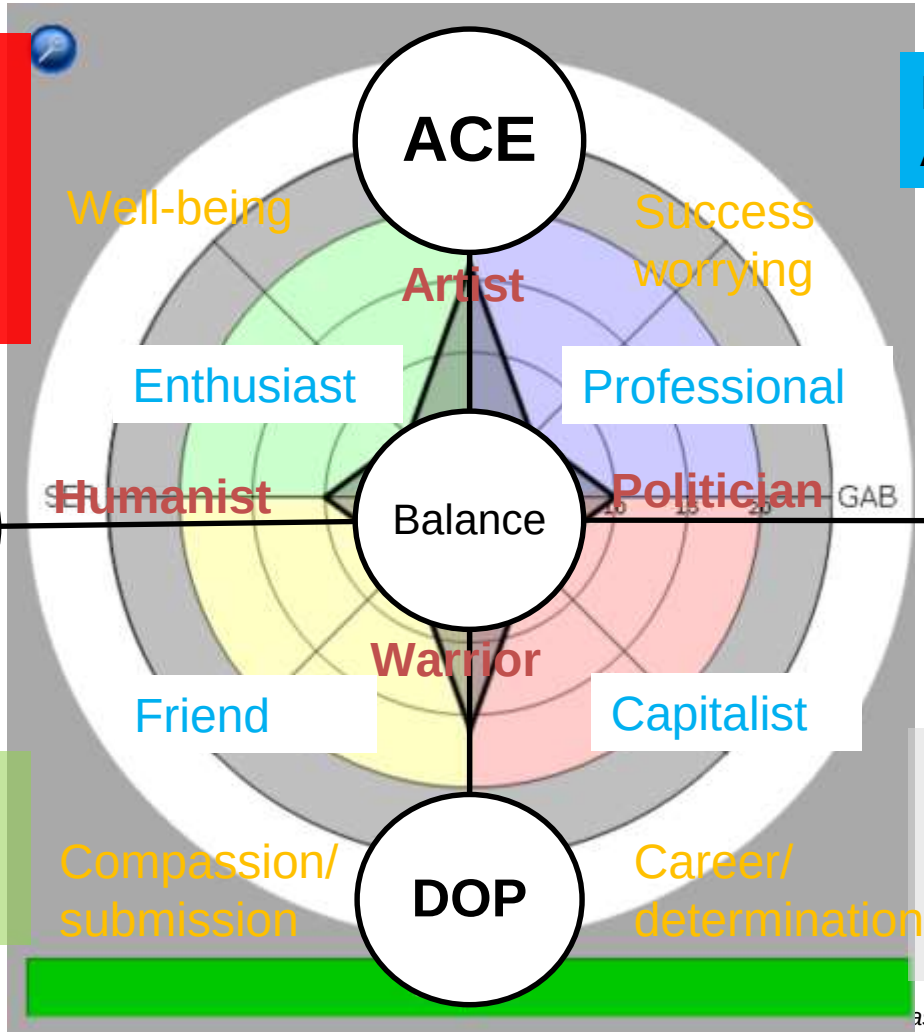
The possibilities of the body – competences



Conceptual
Synthetic
Integrating
Visual

Logical
Analyst

Emotional
Humanistic
Sensory

Conservative
Controller
Normalized
Detailed

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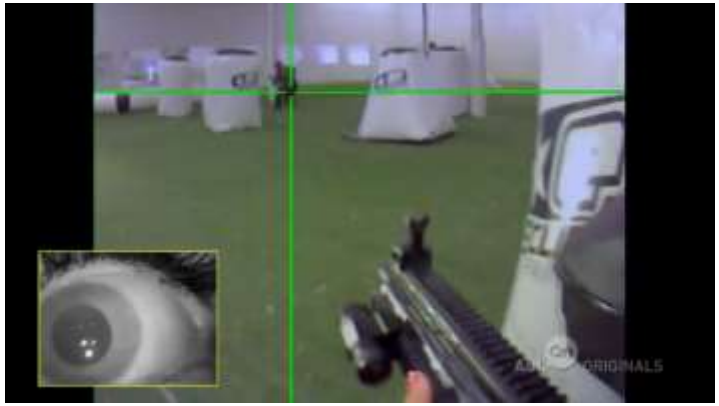
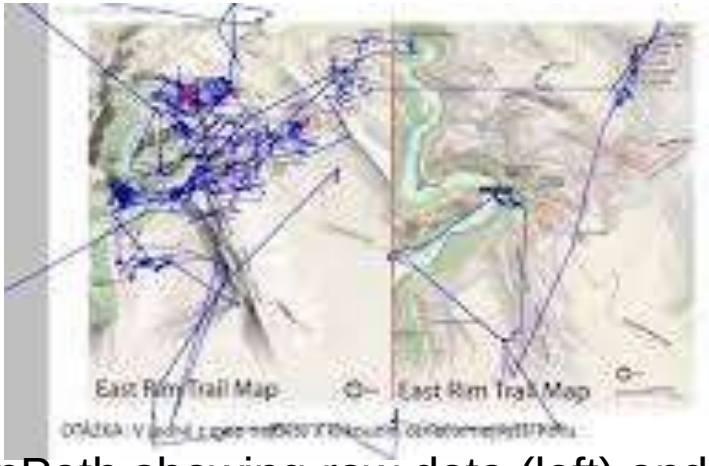
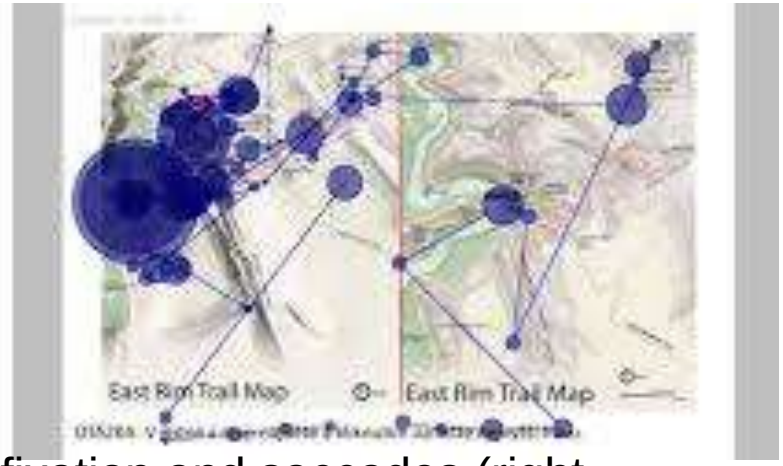
Eye Tracking Used To Determine Personality Traits In New Study

Determination of predispositions in the field of decision making process







ScanPath showing raw data (left) and fixation and saccades (right

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AM – leadership and effective communication

We can define the needs of commanding / leadership competences
in terms of intellect, emotions, behaviors, vitality and increase competence in frame of decision maling process

MULF
Collection, and transfer of data for analise according with RFI

TMA

Institute of Applied Stress Research, Judendorf – Strassengel, and TMA, MULF

Test persons must be burdened (according to specific military tasks).
Based on the data – we can identify TOTALLY ACCURATELY the quantity of burden of a Cadet (how much the Cadet is challenged by a specific task) – based on that we can draw conclusions concerning the training methods to manage the challenges – we even can predict, how future tasks will be fulfilled.

Implementation of the practical part of the improvement courses in accordance with research results - ??

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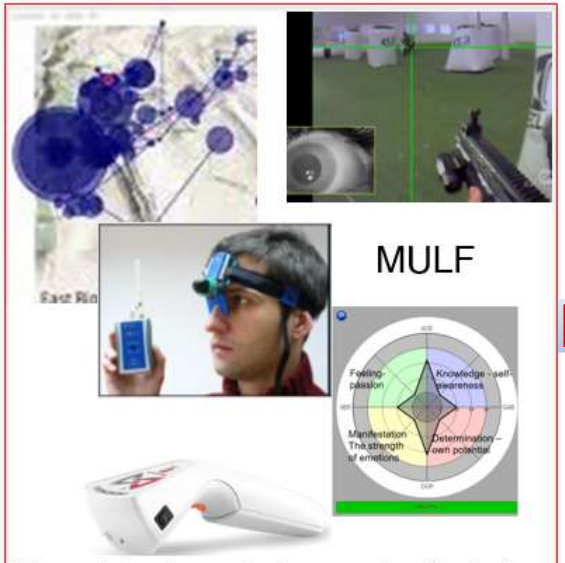
AM – verification of leadership and phisical stamina – how to improve mental and pchisical stamina to increase leader competence in frame of MDMP



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QUESTIONS?

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THANK YOU FOR YOUR ATTENTION

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