**Multimedia Appendix 2:** Simplified example of the generation of the feedback provided by the HRA.

After completing all HRA components, the collected information is processed by computer algorithms to provide tailored feedback. Feedback is provided with respect to five health-related domains, each of which is divided into a number of aspects (Table 5). For every aspect, it is determined whether it needs "no attention" (color green), "attention" (color orange), or "professional attention" (color red).

A compass metaphor is used to summarize the overall health risk across all aspects, using the categories "on track", "slightly off-track", "moderately off-track", and "seriously off-track". Slightly simplified, the overall health risk is determined as follows. If there are no aspects that need "professional attention" and only one aspect that needs "attention", the participant's overall health risk will be "on track". If only one aspect needs "professional attention", or up to two medical, work-related or psychological aspects need "attention", the participant's feedback will be "slightly-off track". If two or more medical or psychological aspects need "professional attention", or three or more aspects need "attention", the participant's feedback will be "moderately off-track". Otherwise the participant's feedback will be "moderately off-track". Otherwise the participant's feedback will be "seriously off-track".

A practical example: when the biometric evaluation of the participant shows elevated cholesterol levels and a high blood pressure that require "professional attention" and the health and lifestyle questionnaire indicates an unhealthy diet, this participant will be "slightly off-track". If the questionnaire also indicates that the participant is at risk for burn-out, the participant will be "moderately off-track".

In Figure 2, the algorithm for the cardiometabolic health risk is shown. This algorithm combines collected data from the questionnaire and the biometric evaluation. The key variable in this algorithm is SCORE, the estimated individual risk of a fatal cardiovascular event within the next 10 years [1]. This SCORE variable has its own algorithm (not shown), which combines smoking status, age, gender, total cholesterol, and systolic blood pressure.

**Table 5.** Health related domains and different aspects, covered by the HRA.

Risk domains included in the algorithm to determine the overall health risk	
BEHAVIORAL DOMAIN	
1. Physical activity	
2. Smoking	
3. Alcohol consumption	
4. Diet	
5. Motivation for health-related behavior change	
6. (Self-)efficacy	
7. Psychological characteristics and preferences for behavioral change	
PSYCHOLOGICAL DOMAIN	
8. Stress	
9. Vitality	
10. Burn-out	
11. Depression	
12. Anxiety	
MEDICAL DOMAIN	
13. Blood Pressure	
14. Lipid profile	
15. Glucose	
16. Body Weight and Fat Distribution	
17. Lung Function	
18. Kidney Function	
19. Osteoporosis	
20. Vision	
21. Hearing	
22. Physical complaints: arm-neck-shoulder (CANS)	
23. Physical complaints: back and lower extremities	
PERSONAL MEDICAL HISTORY/FAMILIAR RISK DOMAIN	
24. Cardiovascular disease	
25. Cancer (colorectal, breast, prostate, melanoma)	
26. Diabetes	
WORK-RELATED DOMAIN	
27. Workability	
28. Work Engagement	



Figure 2. Algorithm for cardiometabolic health risk

GKC = the amount of previously diagnosed cerebrovascular, peripheral vascular or cardiac diseases. Determinant type A = a family member below 65 years with heart disease OR physical inactivity OR obesity OR moderately reduced kidney function.

Determinant type B = a family member below 65 years with heart disease OR a seriously reduced kidney function OR, obesity (>  $35kg/m^2$ ) OR intima-media thickness of the artery walls > 1 OR both high blood pressure and left ventricular hypertrophy.

## References

1. Conroy R. Estimation of ten-year risk of fatal cardiovascular disease in Europe: the SCORE project. *European Heart Journal*. 2003;24:987-1003.