

ABSTRACTS

Erich Herzog and Roger Wehrli

SCENARIOS FOR A DIGITAL SWITZERLAND

Depending on the perspective, the term digitalisation is bound up in both extremely great expectations and pessimistic prognoses. Much is conceivable, but the future prevailing scenario, will be decided upon by the market and those whose needs the technologically feasible must gear itself to. Erich Herzog and Roger Wehrli provide four thought provoking impulses as to where the technologies of tomorrow may develop in a digital Switzerland.

Keywords: digitalisation, Robothek, household robots, augmented reality, navigation aids

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Roland Scherer

LAKE CONSTANCE 2030 – AN INSIGHT INTO THE FUTURE OF THE REGION

The Lake Constance region – borderland between four countries. In comparison with other European regions it remains extremely economically powerful, the author takes a look at the coming year and asks what challenges face the region to be able to remain competitive as an attractive location in the future.

Keywords: International Bodensee Konferenz (IBK) (International Lake Constance Conference), Lake Constance border region, transport network, Bodensee, development of land and housing, economic and work spheres

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Yamin Gröniger

HEALTH INSURANCE FOR THE ILL OR PARTNERS FOR HEALTH? OPPORTUNITIES FOR THE SWISS HEALTH SYSTEM

A continual cost explosion as well as new kinds of political, regulatory, demographic and medical technological changes point to fundamental changes in the Swiss health services. Medical insurers and service providers have the opportunity to influence developments and simultaneously create new added value potentials for all involved in the health system. To this end, they must engage in intelligent cooperation, follow intelligent approaches to solutions and go far further into the basic needs of the service recipients. The following contribution should demonstrate such solution approaches.

Keywords: cost explosion, chronic illnesses, demographic aging, medical technological progress, health system, customer needs, health data

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Georges T. Roos

MEGATRENDS 2038 – AND THEIR CHALLENGES FOR SWITZERLAND

Mega trends – as they are understood by futurology – are epochal, global phenomena and spread to all areas. The challenges, none of them exclusive to Switzerland, are illuminated by the author, as are each of the three mega trends he describes as «embryonic». The latter – according to his thesis – will already have a disruptive effect in the next 20 years.

Keywords: mega trend, urbanization, climate change, digitalization, expansion of education, bio-transformation

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Thomas Brändle and Carsten Colombier

INCREASING PRESSURE ON AGING VIA HEALTH EXPENDITURE ON PUBLIC FINANCES

Vastly increasing health expenditure present a major challenge to the state sector. For the sensitisation of politics and the objectification of the discussion the Swiss Federal Finance Administration regularly make expenditure projections for public finances over the long-term. The expenditure projections show, that the demographic change will forcibly influence the dynamic of health expenditure, especially in the state sector.

Keywords: health care, expenditure projections, long-term care, life expectancy, scenarios of expenditure pressure, development of migration

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Roland Kölliker, Alain Gaume, Andreas Hund, Michael Winzeler and Arthur Einsele

A VISION OF SWISS PLANT PRODUCTION IN 2050

In 2050 the conditions for crop production in Switzerland will be unrecognisable. The primary reasons being extreme competition pressure from global and free markets and climate change with all the more extreme event and scarcity of resources: soil quality is to worsens, arable land dwindle, and water no longer freely available at all times. Under these circumstances, is productive crop farming at all possible or even sensible? What is required to enable a future capable crop production? These questions are posed by experts headed by the Swiss Society of Agronomy (SGPW) for their project Vision Crop Production 2050. The study concludes that sufficient, high quality food products in 2050 can be attained only on a foundation of scientific and technological developments in crop production.

Keywords: crop production, climate change, bio diversity, scarcity of resources, environmentally-sustainable production procedures

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Jacques Babel

SCENARIOS 2016–2025 FOR COMPULSORY SCHOOLTEACHERS

According to new scenarios of the Swiss Federal Statistical Office (BFS) the number of retired compulsory teachers is presently at the highest level: almost 40% more retired today than expected as in 2010. Both at primary school level and at 1st secondary level the numbers retiring may taper off in the next few years. Clear differences between Cantons are indicated at both levels. At primary level, the demand for new teachers may remain stable, in spite of the expected rise in the numbers of pupil. For the 1st secondary level a slight increase has been projected by 2022. The breakdown of results regarding the age structures of teaches and the expected number of pupils differs vastly between Cantons.

Keywords: education system, schoolteachers, age structure, retirement, compulsory schools

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