

The Swiss Sediment Management

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SMART LIGHT

1 - DEWATERING PLANT - HOPPER -
HYDROCYCLONE - SCREENING PLANT < 0,02 mm

2 - DRY GRAVEL SAND < 40 mm

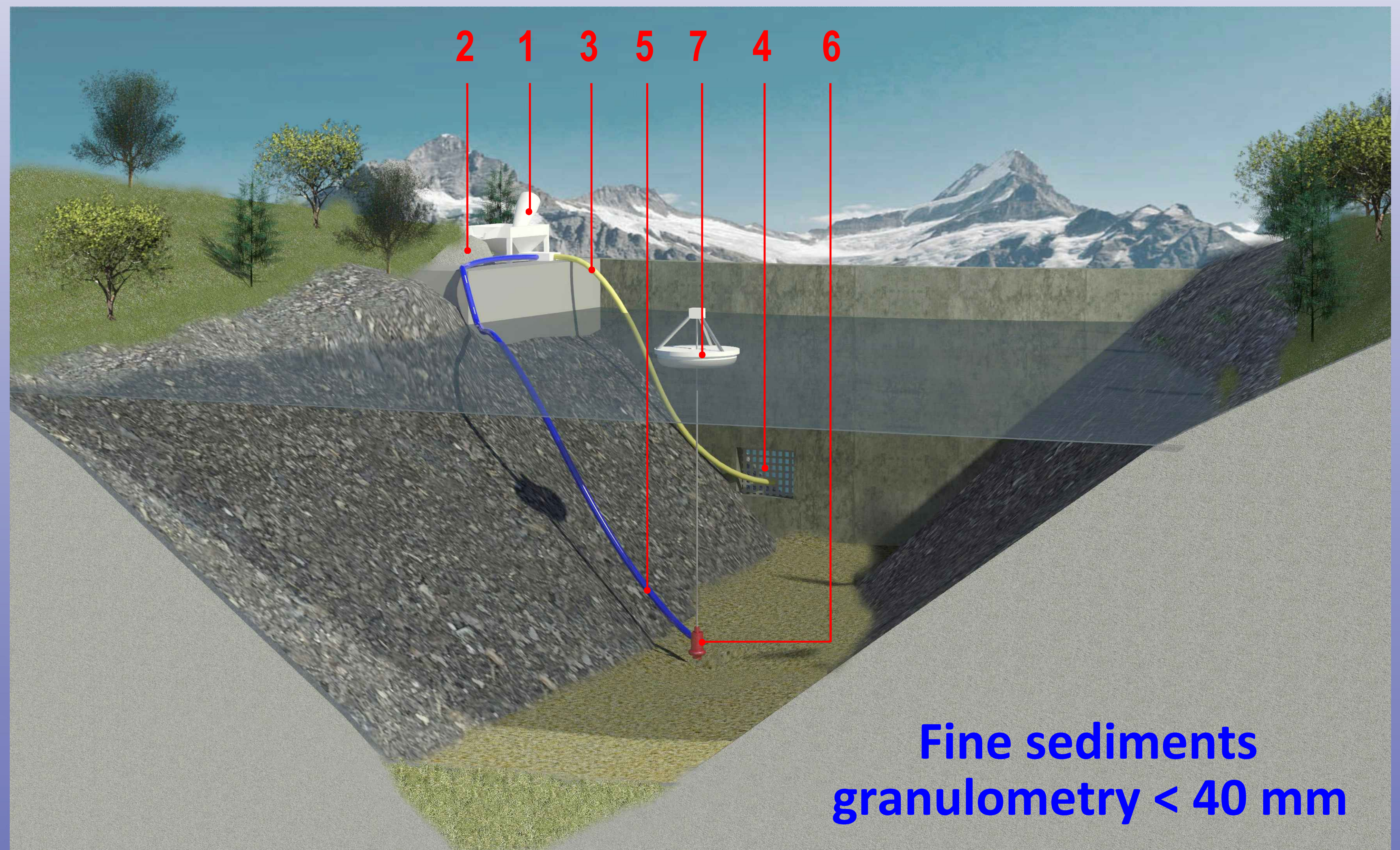
3 - PIPELINE DIA 200 mm : SLUDGE AND FINE
SOLID < 0,02 mm

4 - INTAKE

5 - PIPELINE DIA 200-250 mm : PUMPED SLUDGE
AND SOLID < 40 mm

6 - ELECTRIC DREDGE PUMP - Discharge Diameter:
200/250 mm - Solid Handling: 60 mm

7 - SMART LIGHT



LOW COST



EXAMPLE OF DREDGING & CONTROLLED FLUSHING

DREDGED MATERIAL BY SUBMERGED PUMP:

350 cm/h (SOLID 15%) SOLID 50 cm/h

GRANULOMETRY 100% < 0,02

DENSITY OF THE SEDIMENT : 1,8 t/cm

SOLID FLOW TO INTAKE 90 t/h

20h/day * 1 month = 600h 50cm/h*600h/month = 30.000
cm/month

INTAKE FLOW = 10 cm/sec = 36.0000 cm/h

TORBIDITY : 90 (t/h) / 36.000 (cm/h) = 2,5 g/l



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