

# Knowledge and technology transfer

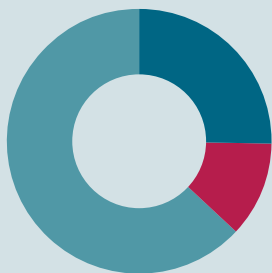
Fig. 14: Knowledge and technology transfer in the ETH Domain

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Invention disclosures</b>	-	-	-	-	-	-	-	-	<b>343</b>	<b>358</b>
ETH Zurich	-	-	-	-	-	-	-	-	171	205
EPFL	-	-	-	-	-	-	-	-	134	119
Research institutes	-	-	-	-	-	-	-	-	38	34
<b>Software notifications</b>	-	-	-	-	-	-	-	-	<b>26</b>	<b>36</b>
ETH Zurich	-	-	-	-	-	-	-	-	20	19
EPFL	-	-	-	-	-	-	-	-	6	13
Research institutes	-	-	-	-	-	-	-	-	0	4
<b>Patents</b>	<b>155</b>	<b>128</b>	<b>147</b>	<b>195</b>	<b>193</b>	<b>211</b>	<b>219</b>	<b>230</b>	<b>206</b>	<b>230</b>
ETH Zurich	78	63	72	87	103	82	98	109	84	109
EPFL	44	47	52	75	66	99	88	100	95	95
Research institutes	33	18	23	33	24	30	33	21	27	26
<b>Licences</b>	<b>176</b>	<b>178</b>	<b>194</b>	<b>230</b>	<b>223</b>	<b>270</b>	<b>311</b>	<b>353</b>	<b>377</b>	<b>341</b>
ETH Zurich	37	39	45	35	38	35	50	78	82	87
EPFL	47	45	50	31	41	46	48	58	50	39
Research institutes	92	94	99	164	144	189	213	217	245	215
<b>Spin-offs</b>	<b>45</b>	<b>38</b>	<b>40</b>	<b>38</b>	<b>43</b>	<b>49</b>	<b>48</b>	<b>50</b>	<b>48</b>	<b>55</b>
ETH Zurich	24	20	22	22	24	22	25	25	25	27
EPFL	20	14	15	12	12	24	18	20	15	25
Research institutes	1	4	3	4	7	3	5	5	8	3

Invention disclosures and software notifications were introduced in 2017 as additional KTT indicators.

## Licences

# 341



ETH Zurich	87
EPFL	39
Research institutes	215

## Invention disclosures

# 358

## Software notifications

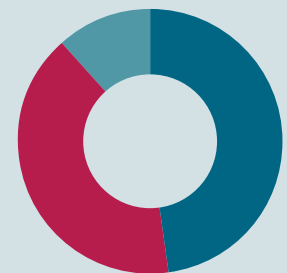
# 36

## Spin-offs

# 55

## Patents

# 230



ETH Zurich	109
EPFL	95
Research institutes	26

Fig. 15: Cooperation with the private and public sector

	2018	2017
<b>Collaboration contracts with the private sector</b>	<b>594</b>	<b>507</b>
<b>Financed by the private sector</b>	<b>415</b>	<b>316</b>
ETH Zurich	149	122
EPFL	120	99
Research institutions	146	95
<b>Financed by Innosuisse/FP*</b>	<b>179</b>	<b>191</b>
ETH Zurich	74	57
EPFL	49	66
Research institutions	56	68
<b>Collaboration contracts with the Swiss public sector</b>	<b>261</b>	<b>285</b>
ETH Zurich	100	88
EPFL	43	54
Research institutions	118	143

Number of new cooperation agreements (research agreements and scientific services) with the private and Swiss public sector involving a volume of at least CHF 50,000 per contract. These indicators were introduced in 2017.

\* FP: EU Framework Programmes for Research and Innovation

### KTT indicators and counting methods

The patents correspond only to priority applications, and the licences also include technology transfer agreements. The invention disclosures and software notifications correspond to the reports and notifications submitted in writing to the Technology Transfer Offices of the institutions of the ETH Domain in the year under review. They reflect activities in the early phases of the innovation process, thereby supplementing the other KTT indicators.

In order to reflect the cooperation between the institutions and private enterprise and the public sector, only recently concluded

cooperation agreements are included. These are only research agreements and scientific services with a volume of at least CHF 50,000 per contract. Cooperation with the private sector is divided into two categories: projects that are directly financed by industry in Switzerland or abroad; and those funded by Innosuisse or the EU Research Framework Programme for Research and Innovation (FP). Cooperation with the public sector includes contracts with public sector institutions in Switzerland, but not those with national or international research funding organisations and foundations.