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homefibre digital network gmbh Austria

GE-POF for
More Connectivity
More Flexibiity

A Concept for Extended Home Network Infrastructure

DRAFT 2014-10-01

Extended Future Home Network

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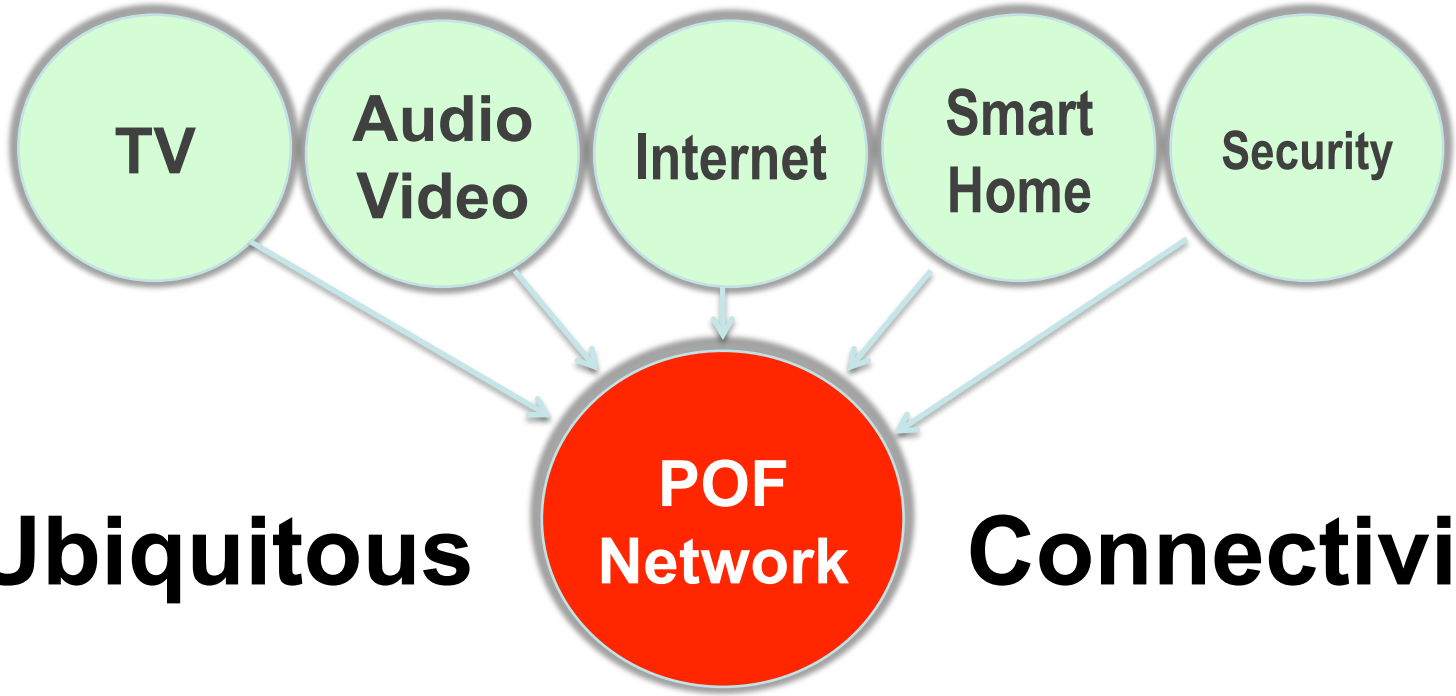
More Connectivity



Ubiquitous Connectivity

Optical LAN | WLAN | New Building | Retrofit | Self-Installation

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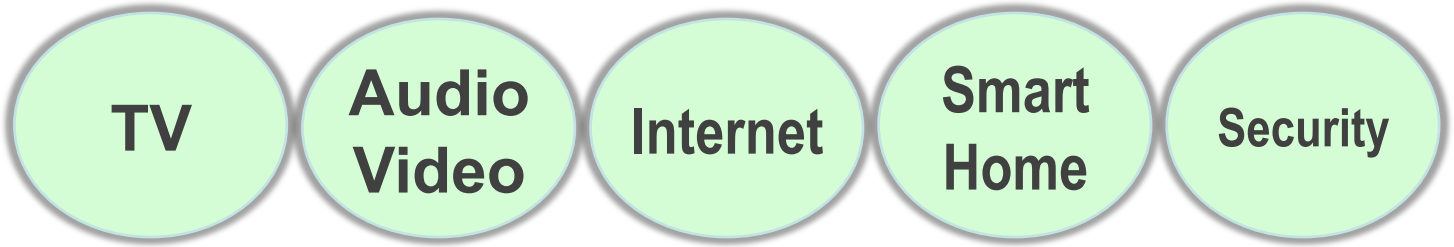

TV	**X**	**X**	**X**	**X**	**X**
PC / LT	X	X	X	X	X
Tablet Smart Phone	X	X	X	X	X
Camera	X		X	X	X
Multi Room Audio	X	X	X		
Sensors / Actors	X		X	X	X

Up to more than 100 devices might be networked in the home (gateways, sensors, actors, multimedia, telecommunication etc...)

Optical LAN | WLAN | New Building | Retrofit | Self-Installation

Extended Future Home Network

Home Network Challenges:	Solutions with POF:
- for Builder & User	
We need more network but have less budget (builder)	pre-installed POF cable with conduits or electrical wires
We want a more flexible network in homes/offices (builder)	the optical IP data backbone is everywhere available
How to install a better network in existing homes? (ISP)	POF- retrofit in electrical installation or in/on the wall
No or not enough IP-network connectivity (end-user)	POF = sufficient network connectivity pre-installed
WLAN – we have gaming & video issues (end user)	well prepared for optimized WLAN usage

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Install Broadband Ethernet in existing houses:

- via electrical conduits
- via Telephone conduits
- via coaxial cable conduits
- under side boards

Extend Ethernet connectivity in new houses:

- for more flexibility
- for more connectivity
- for grounding critical applications
- for optimized WLA

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The extended home network infrastructure is to prepare the IP-data backbone with a minimum investment for:

- for **optimized today and future LAN & WLAN** technologies and concepts (e.g. small cells, high frequencies ...)

- for **easy and flexible integration** of wired and wireless IP based network applications, everywhere in the home

- a flexible to use basic data backbone to allow a client to **chose flexible between wired and wireless** home network

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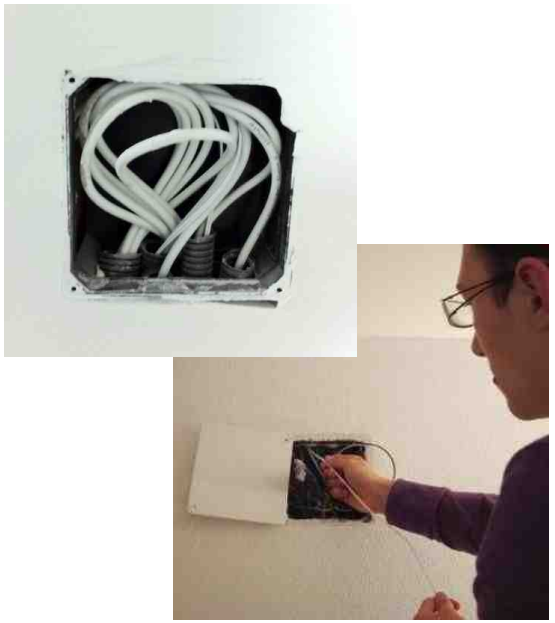
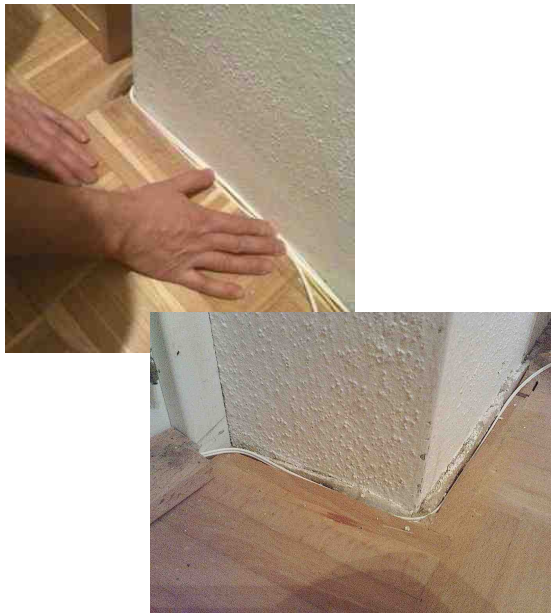
RETROFIT		
share existing conduits	use pre-installed conduit or composite cable	on the wall under the side board, under the carpet
+ no dust + cable not visible	+ fast installation + self installation	+ look & feel / WAF + self installation
		

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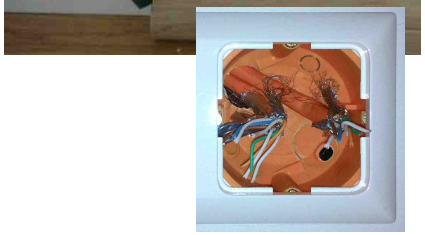
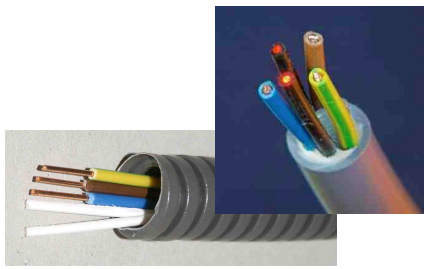
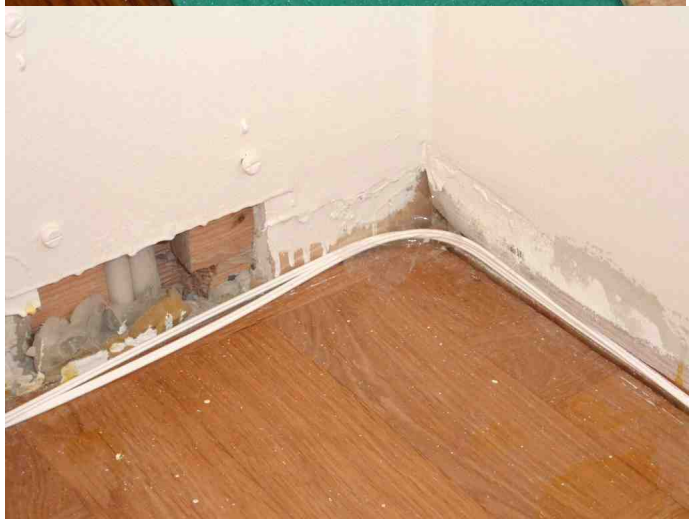
NEW HOUSES			
Cat 5/6 in separated conduit or no conduit	POF in shared conduit or cable (electrical or coax etc...)	POF in conduit plus electrical, Cat5/6, HDMI, Coax etc..	Combi: Cat5/6 and POF-Electrical or POF Conduit
	+ low cost pre-installation + more & flexible connectivity	+ high added value pre-installation + more & flexible connectivity	
			

Retrofit - Home Network



Retrofit - Home Network

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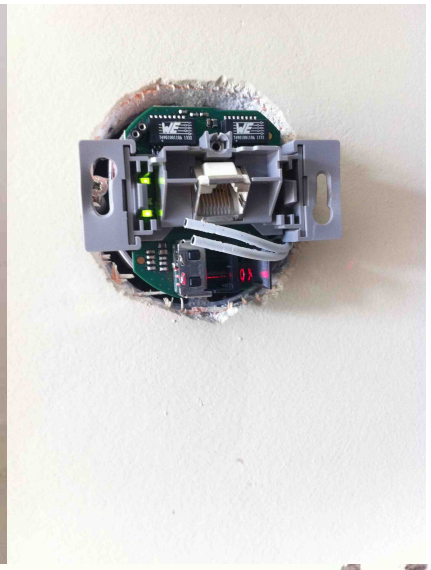

Retrofit - Home Network

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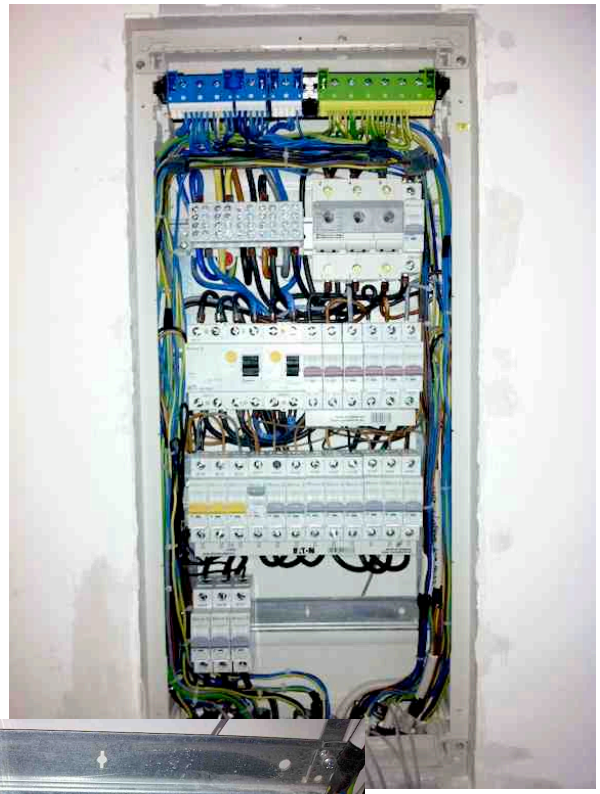

Retrofit - Home Network

Retrofit - Home Network

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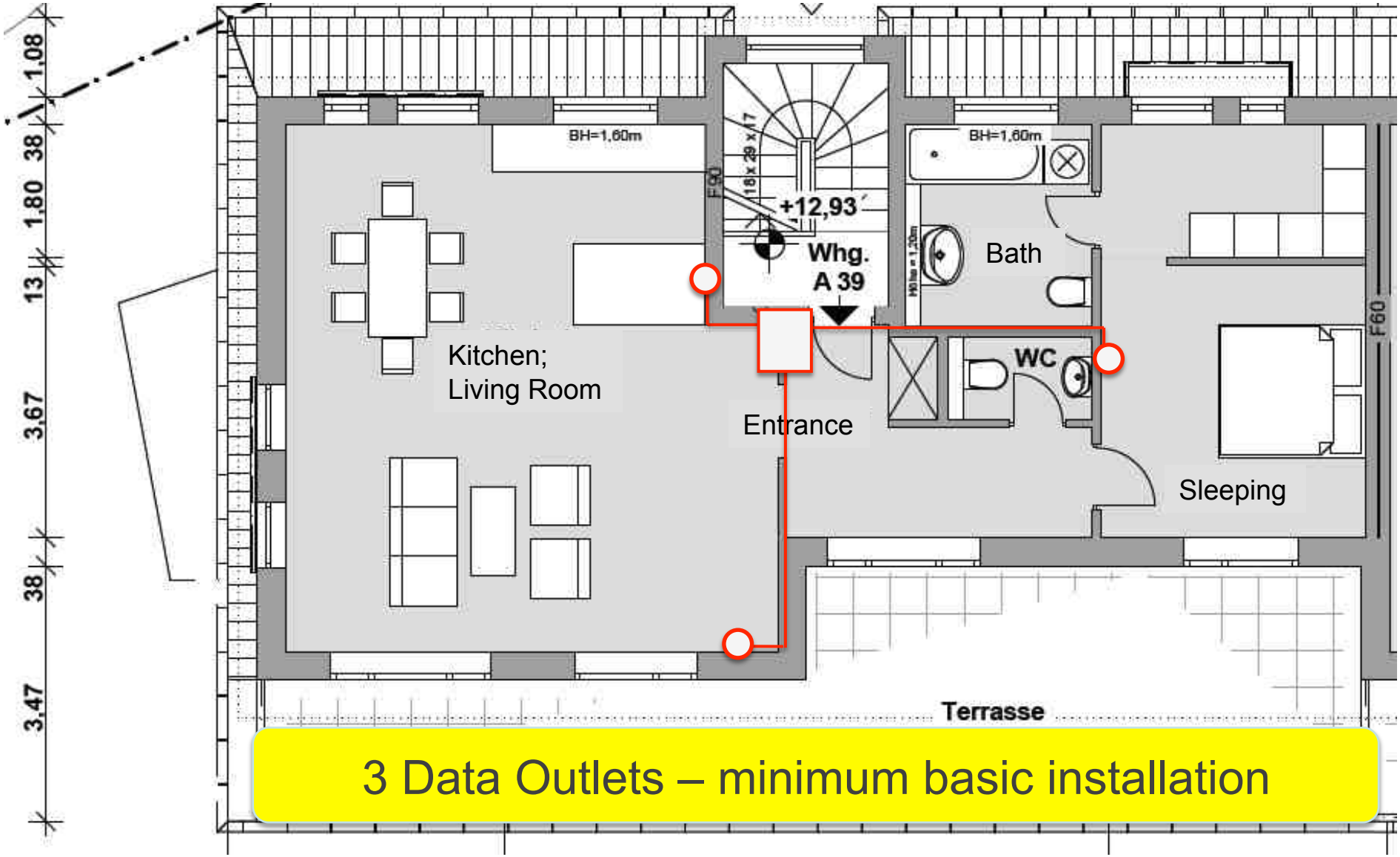

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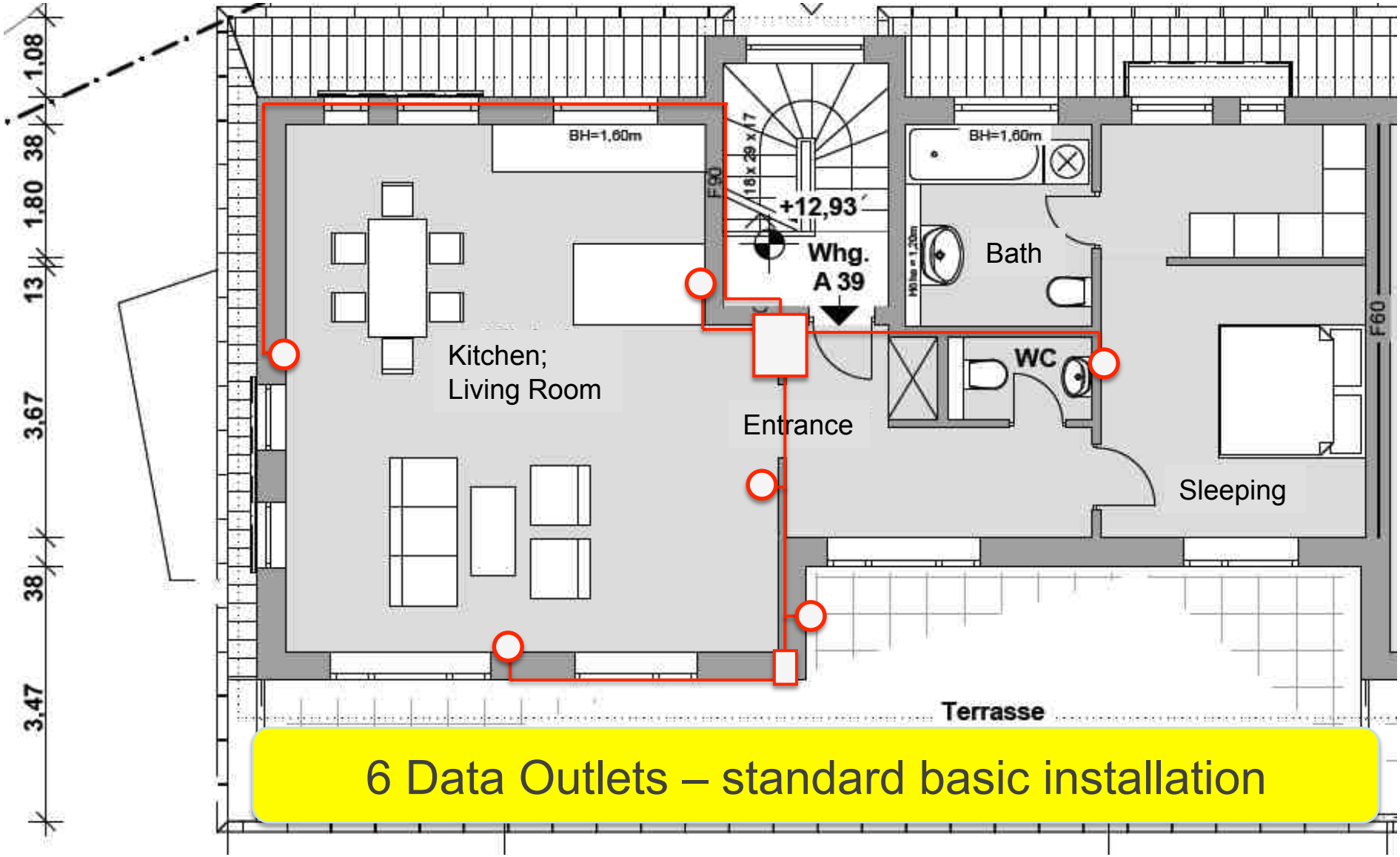

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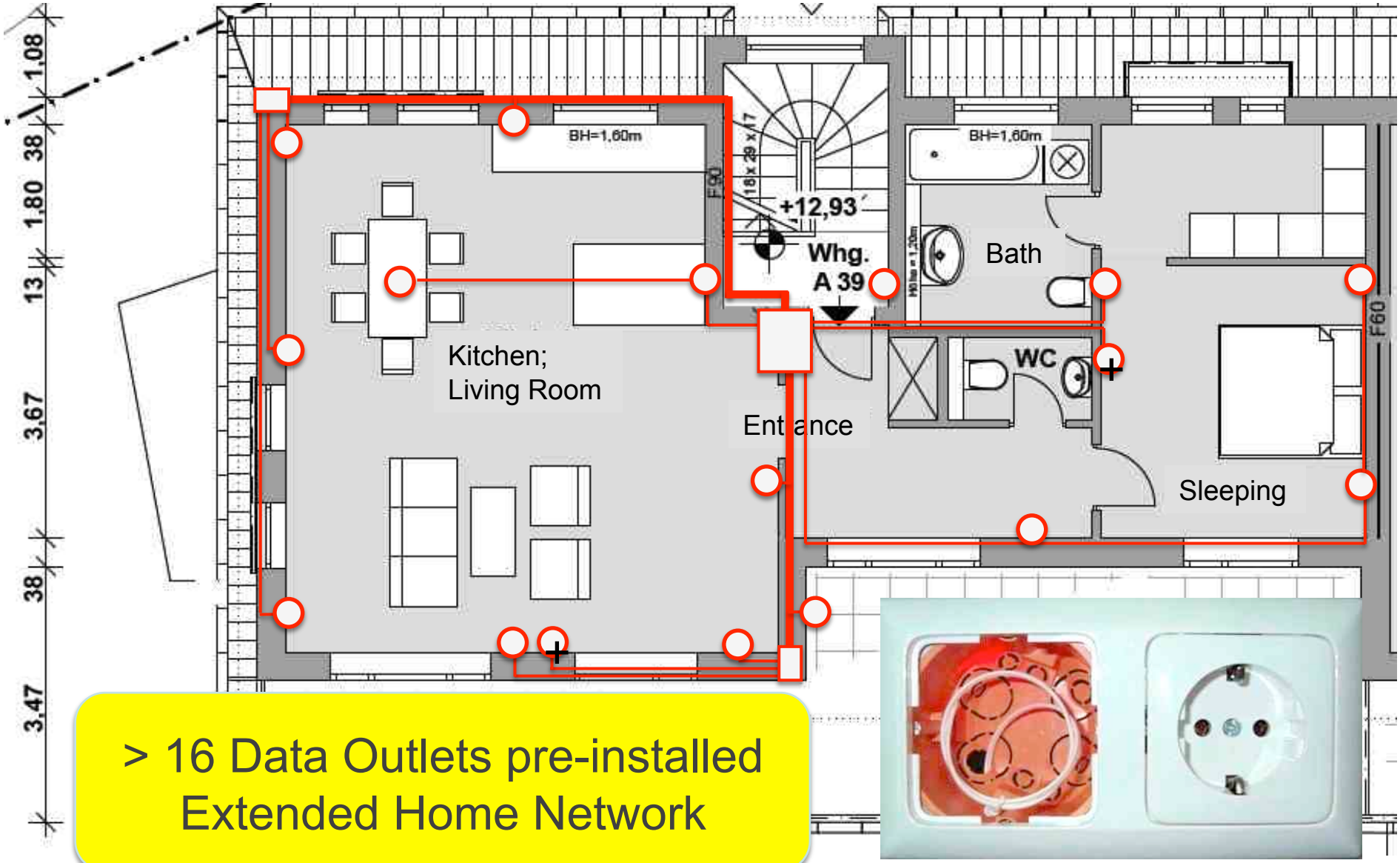

> 16 Data Outlets pre-installed
> Extended Home Network

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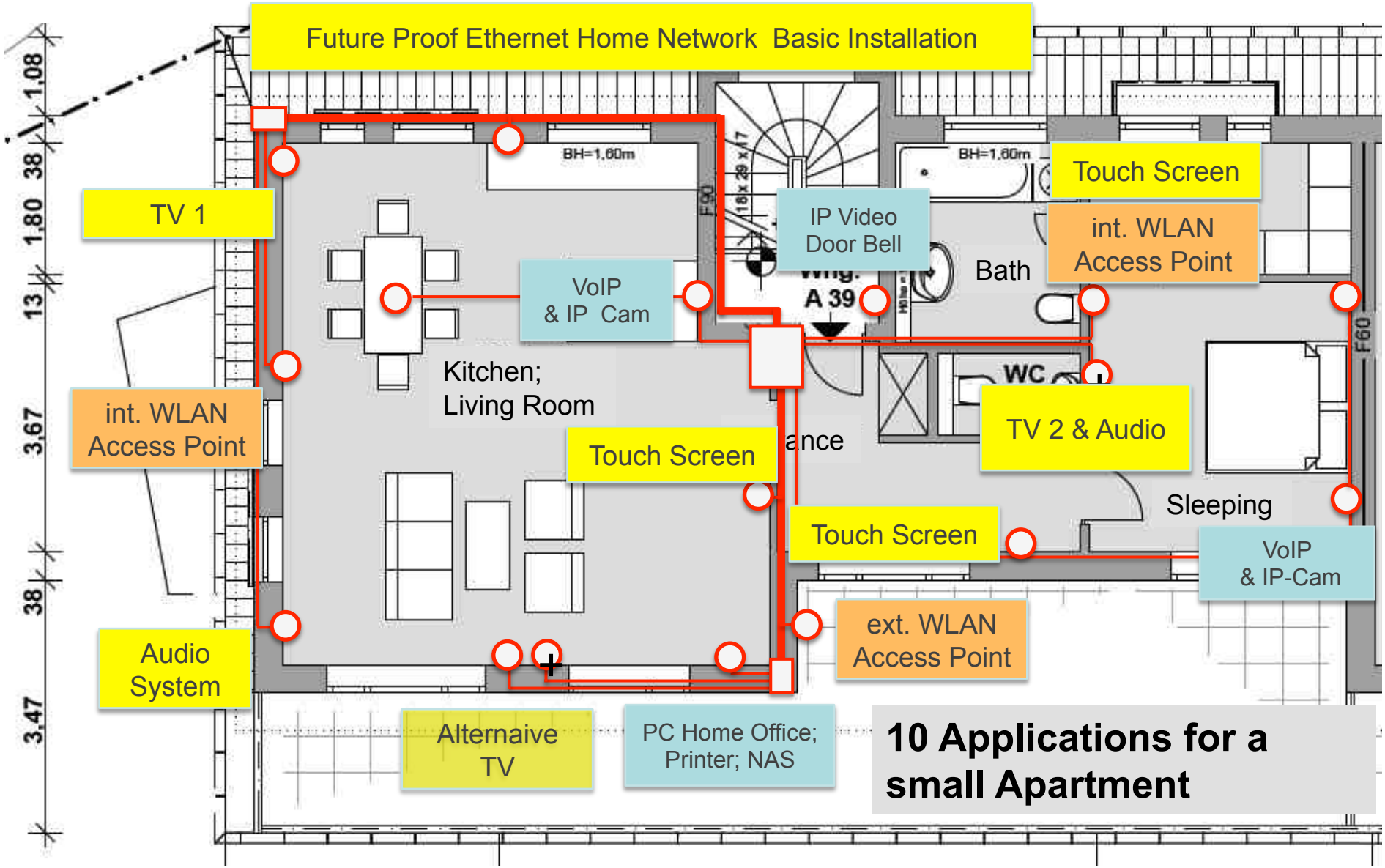

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Standard Installation:
2 conduits for data & power:
1 conduit for electrical wires
1 Conduit for Cat5 (6)

Extended Connectivity
1 conduit for electrical & POF

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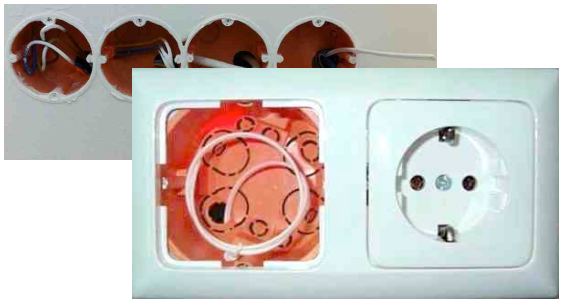

POF everywhere pre-installed

Active components where needed

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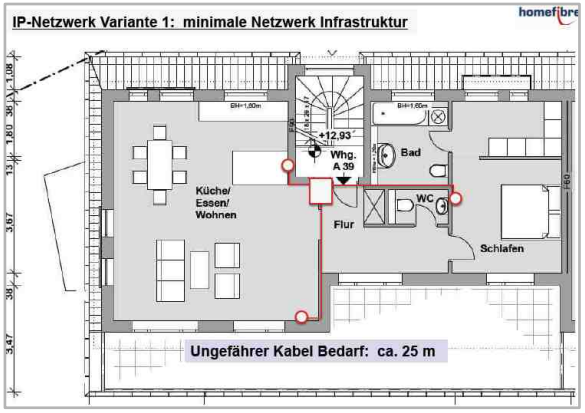

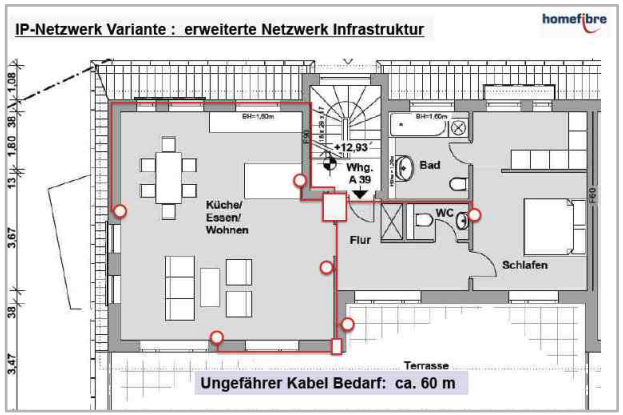

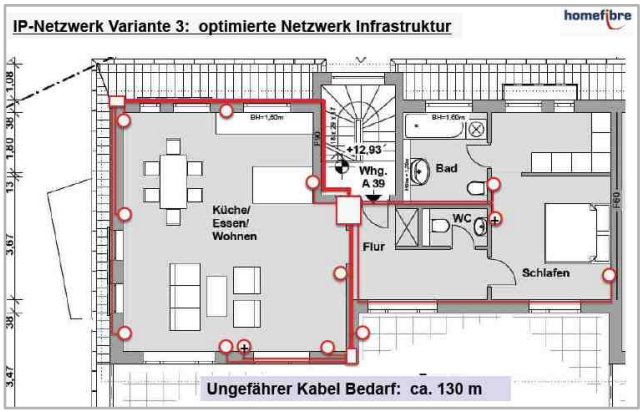

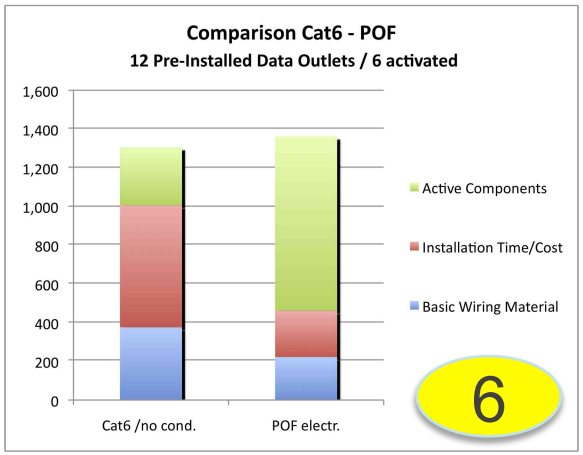

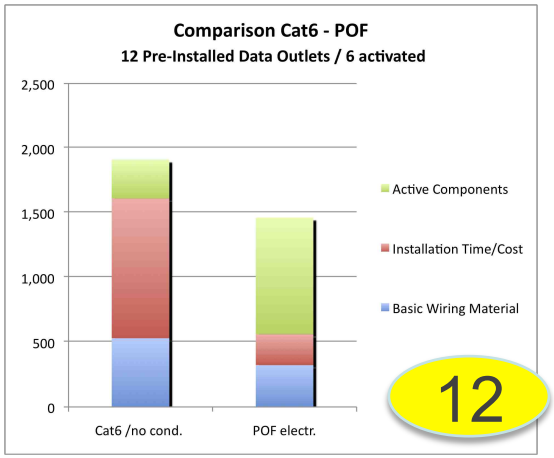

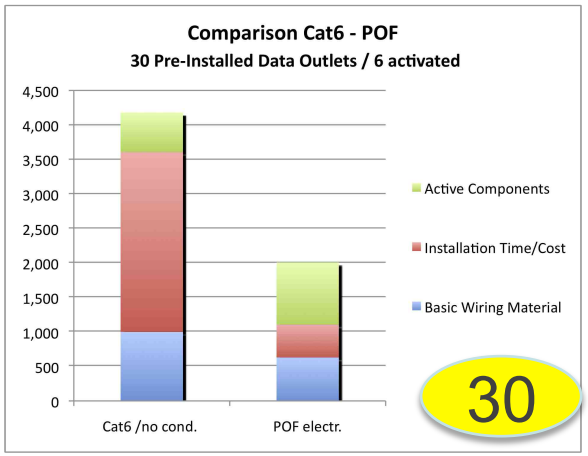

Extended Home Network Connectivity for less basic investment

More pre-wired connections for more efficiency & flexibility

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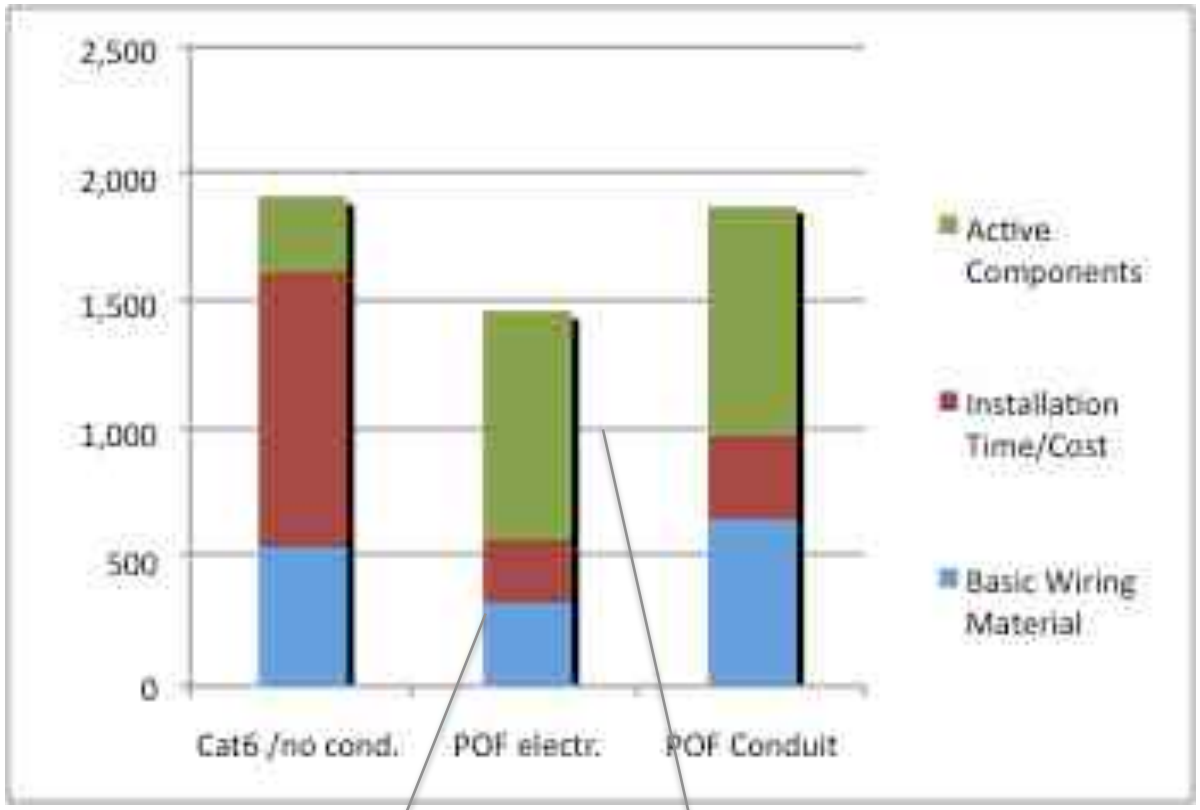
e.g.:

12 Outlets pre-wired

6 double outlets activated

= 12xRJ45 + WLAN



+ low cost basic infrastructure
+ less installation time

+ more Ethernet connectivity

+ technology becomes cheaper
- in general labour cost tend to increase

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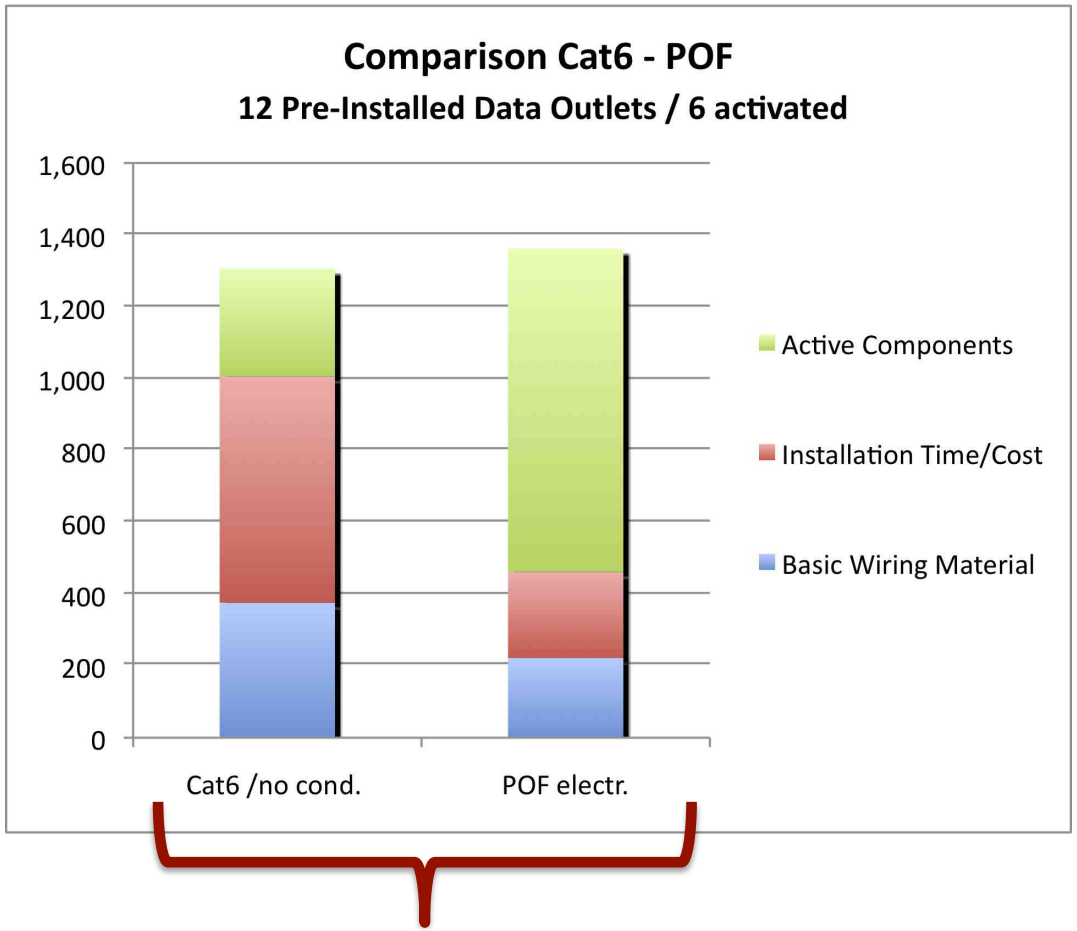

Combined Cat5 – POF home network for maximum coverage and flexible use of Ethernet technologies - the optimized solution!

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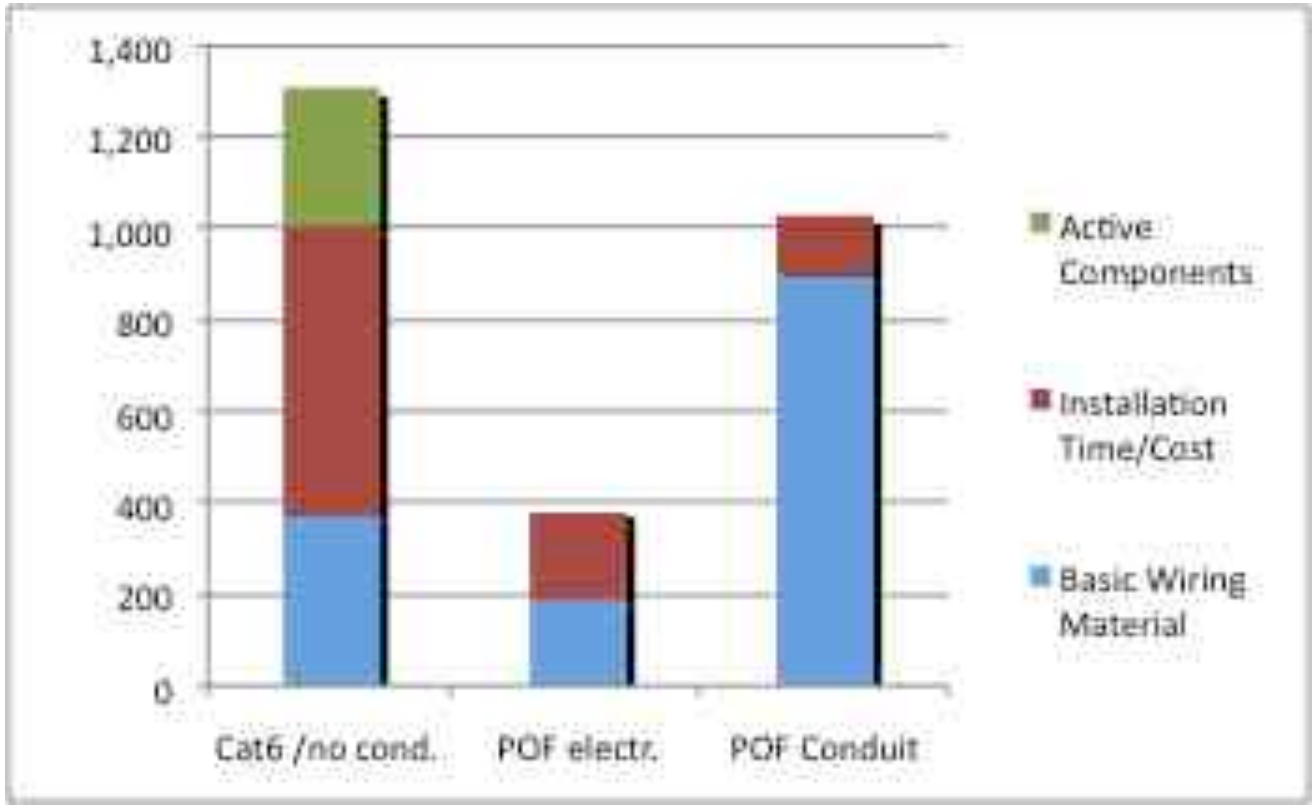
A builder proposal for optimized combination Cat5 – POF



6 Cat 5 Outlets	12 POF Outlets pre-installed	18 POF Conduit Outlets pre-installed

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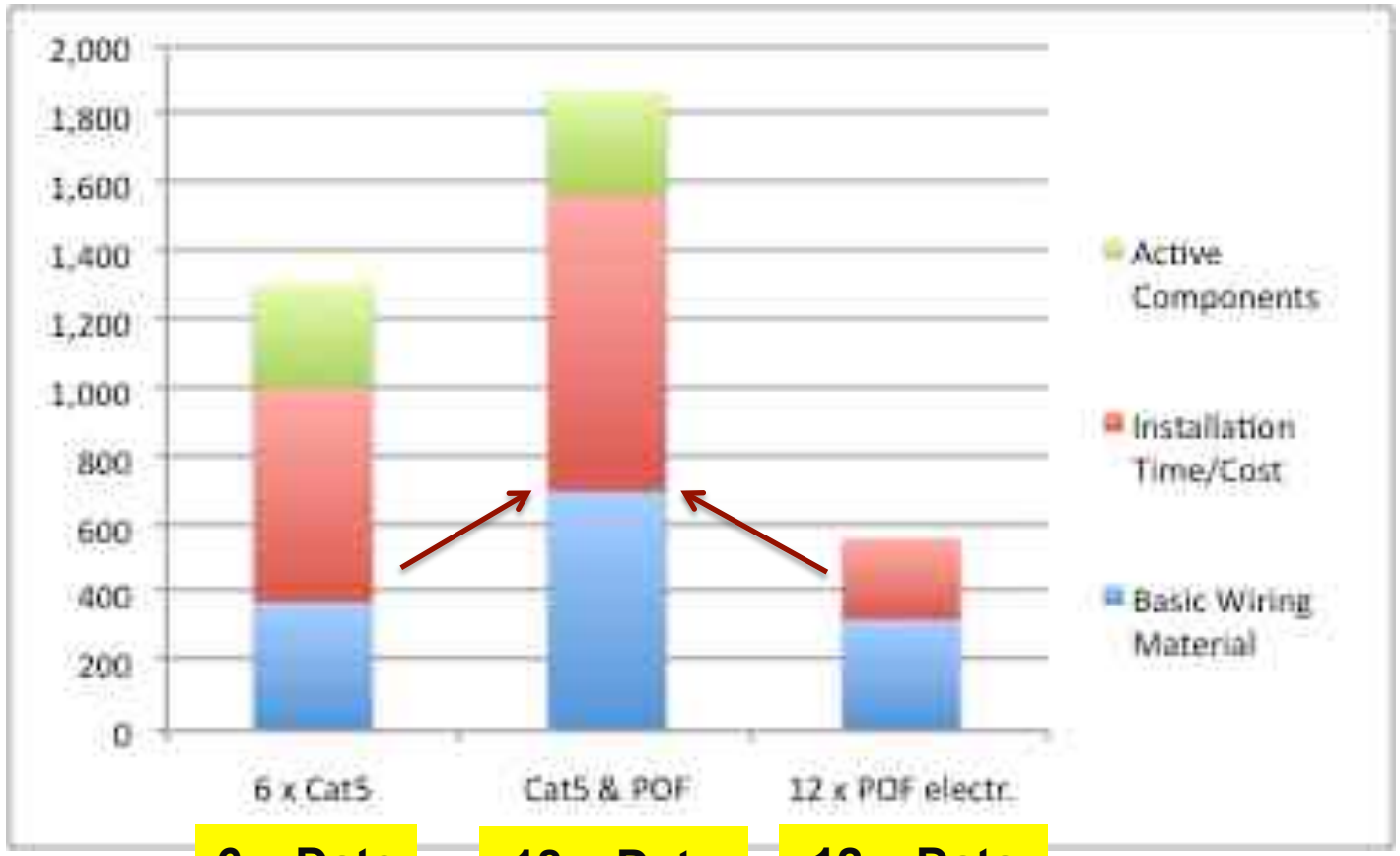
A builder proposal for optimized combination Cat5 – POF



6 x Data | **18 x Data** | **12 x Data**

6 Cat 5 Outlets	6 Cat5 + 12 POF Outlets pre-installed	12 POF Outlets pre-installed

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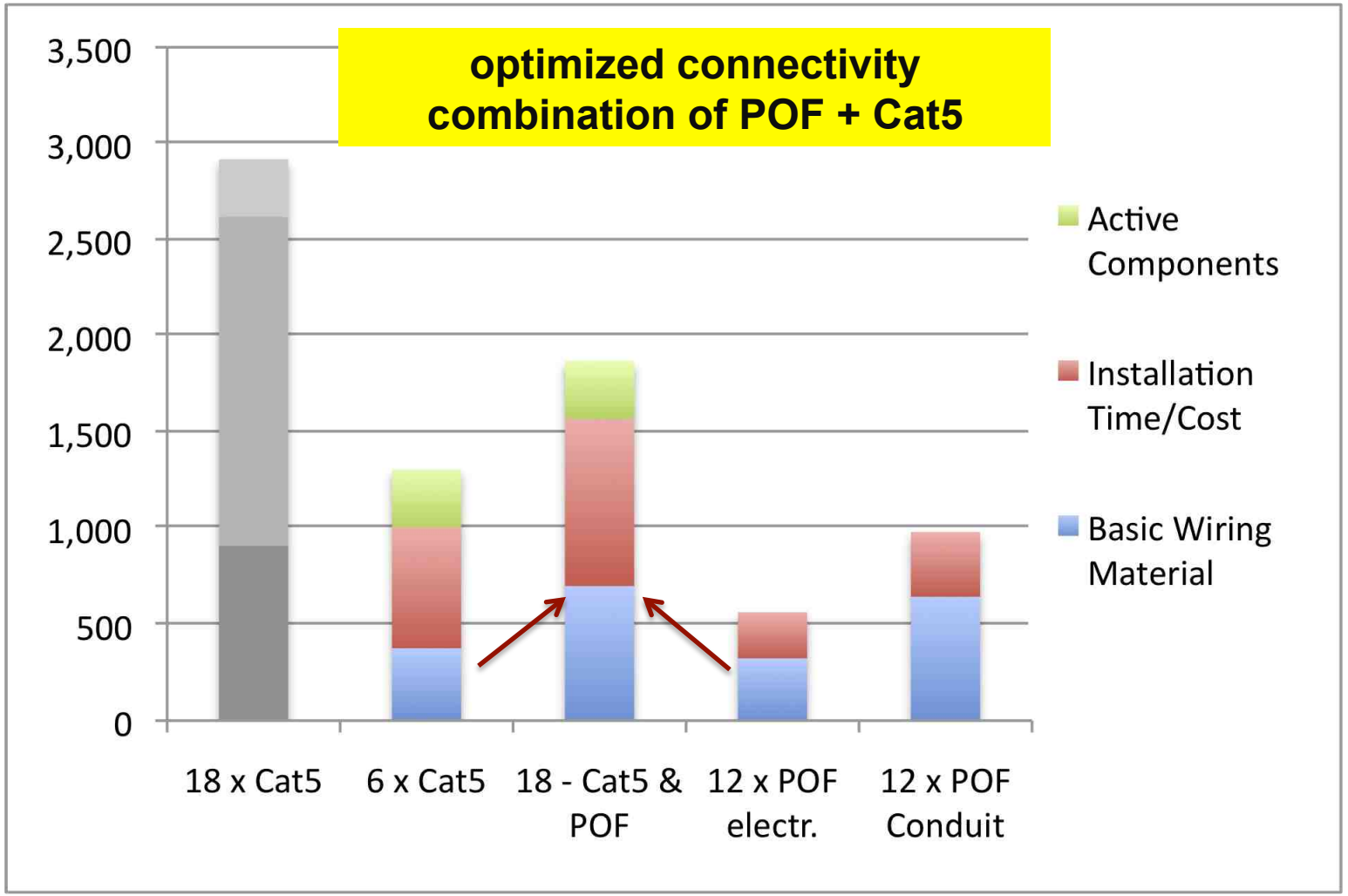
A builder proposal for optimized combination Cat5 – POF



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Major Application:
TV goes to IP

source

inverto.tv

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POF offers excellent opportunities to install a reliable network in constructions which does not allow wide wireless penetration or which does not allow to install cable outside the wall.

POF network technology allows to install **high density connectivity options** and flexibility in home networks for very low infrastructure cost.

Since TV (DVB-S, DVB-T, DVB-C) can be distributed via IP network the demand for an easy to installed core network is increasing!

Home Network Requirement

Flexible Connectivity

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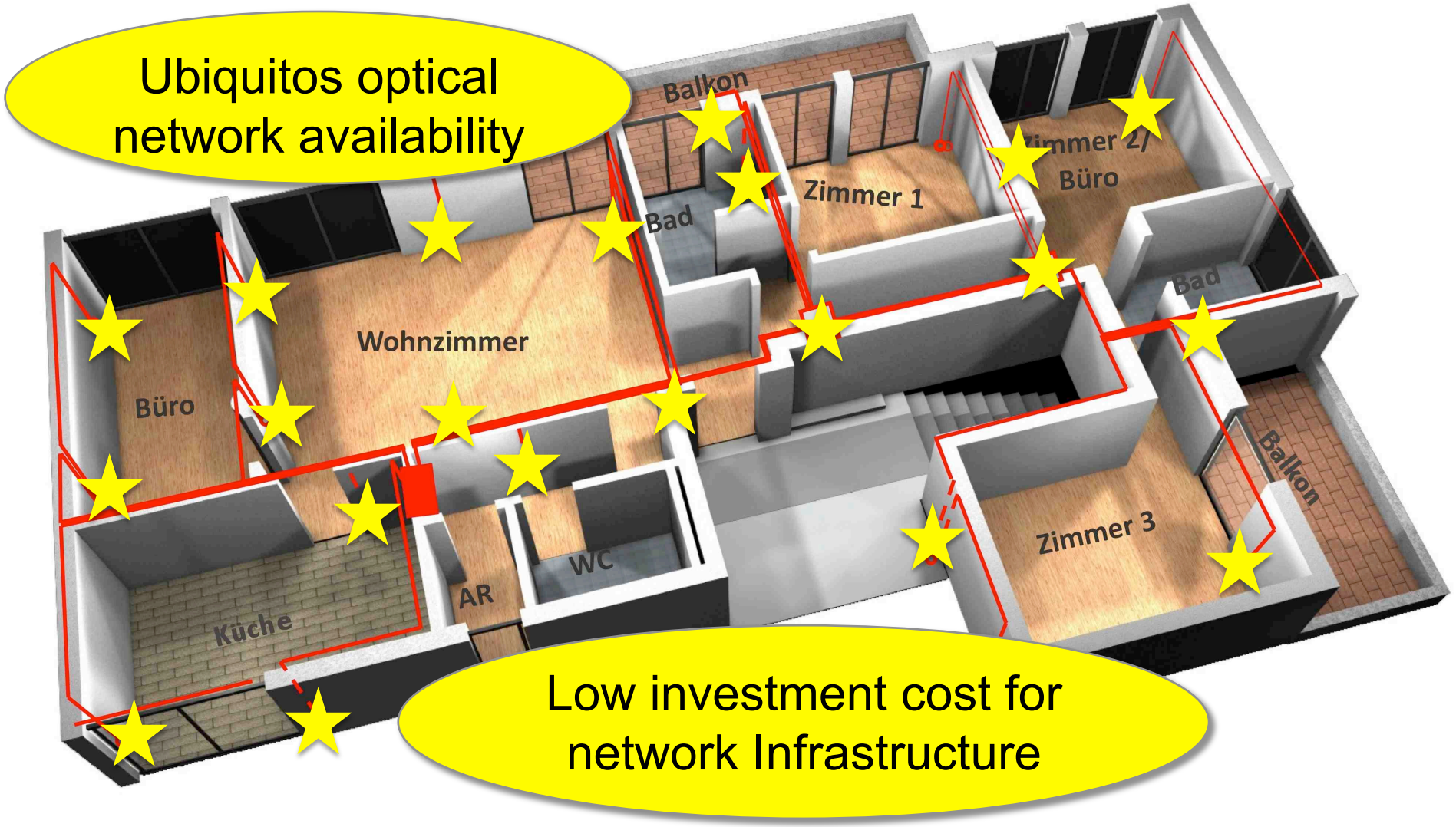
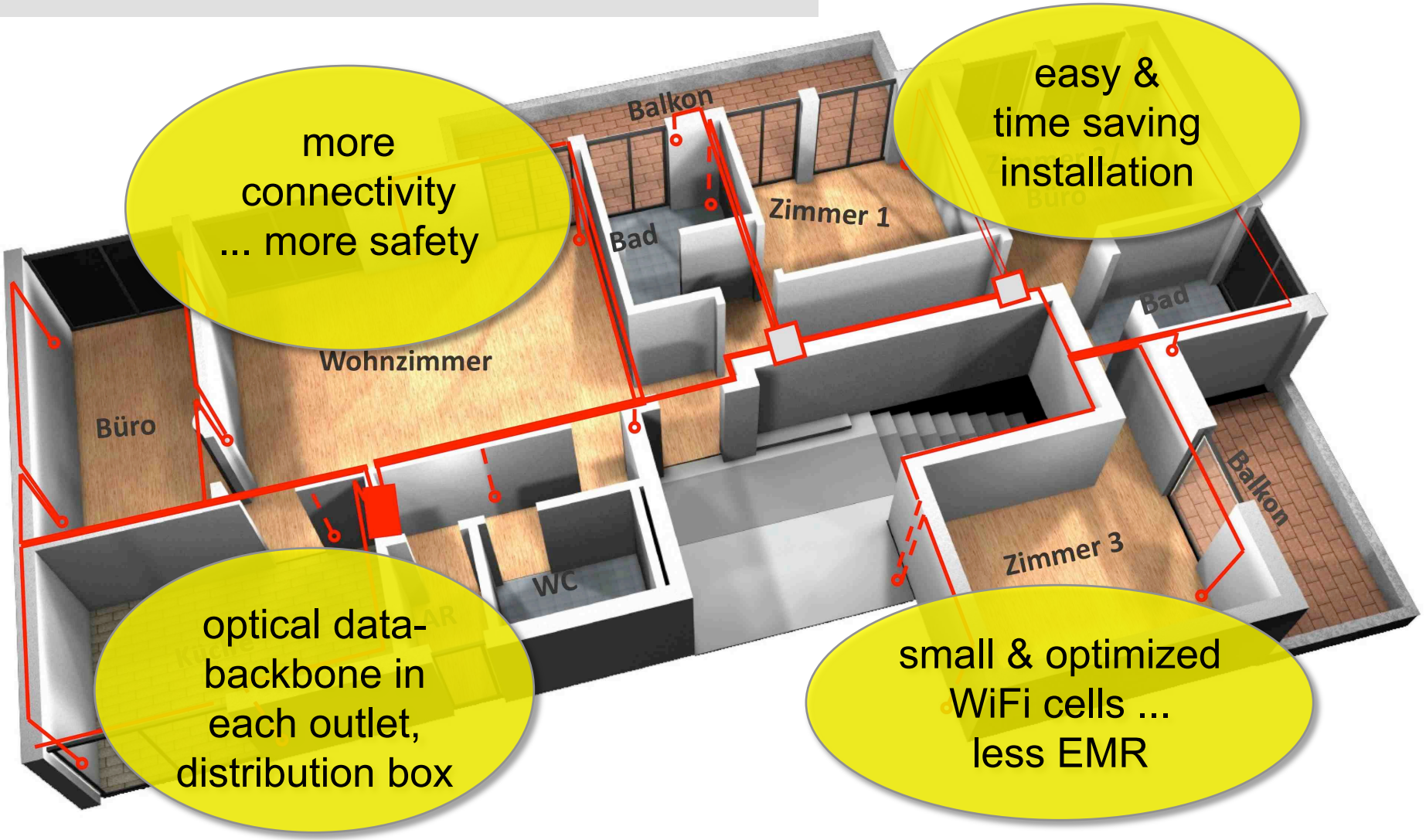


Home Network Requirement

Flexible Connectivity



Thank you

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